TONGYU COMMUNICATION

BASE STATION ANTENNA Product Catalogue

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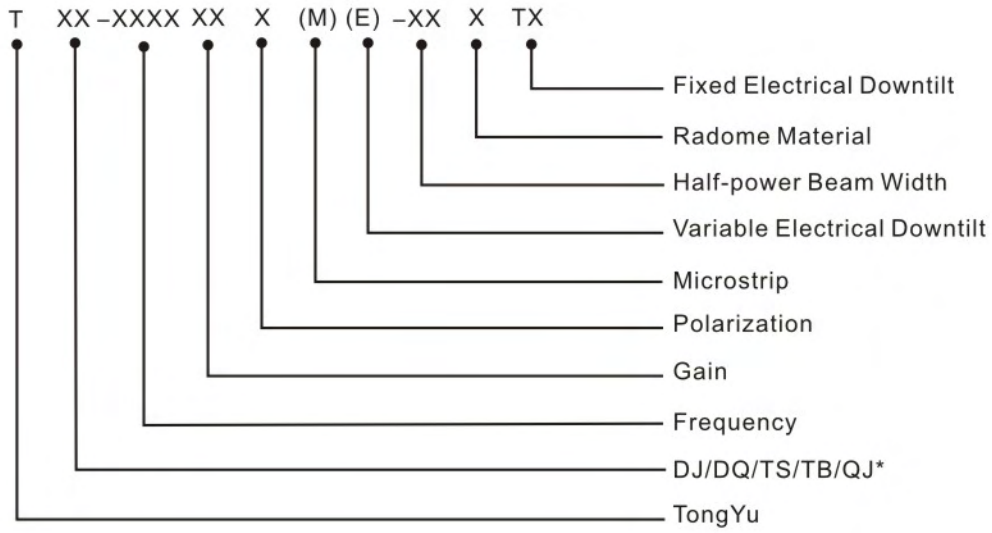
Product Catalogue

Your Global Antenna Partner

Tongyu Communication®

Integrity Innovation
Royalty Harmony



*DJ/DQ/TS/TB/QJ
DJ: Directional outdoor antenna
DQ: Side by side antenna
TS: Tri-Sector antenna
TB: Triple-band antenna
QJ: Omni antenna

eg: TDJ-182018DE-65FT0
Directional Antenna
Frequency Range: 1710-2170MHz
Gain: 18dBi
Polarization: Dual Polarized
Radome Material: Fiberglass
Fixed Downtilt: 0°
Horizontal Beam Width: 65°

CONTENT

Variable Electrical Downtilt Antennas 800/900

Dual Polarization ±45°

Model	Type					Height	Page
TDJ-809018DME-33P	XPol	806-960	18dBi	33°	0-15° T	1325	4
TDJ-809019DME-33P	XPol	806-960	19dBi	33°	0-10° T	1980	5
TDJ-809020DME-33P	XPol	806-960	20.4dBi	33°	0-10° T	2520	6
TDJ-809012DME-65P	XPol	806-960	12dBi	65°	0-15° T	800	7
TDJ-809015DME-65P	XPol	806-960	15dBi	65°	0-15° T	1325	8
TDJ-809017DME-65P	XPol	806-960	16.5dBi	65°	0-10° T	1980	9
TDJ-809018DME-65P	XPol	806-960	17.5dBi	65°	0-8° T	2580	10
TDJ-809014DE-90P	XPol	806-960	13.5dBi	90°	0-15° T	1325	11
TDJ-809015DE-90P	XPol	806-960	15dBi	90°	0-10° T	1980	12
TDJ-809016DE-90P	XPol	806-960	16dBi	90°	0-8° T	2580	13

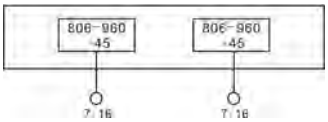
Side by Side Antenna

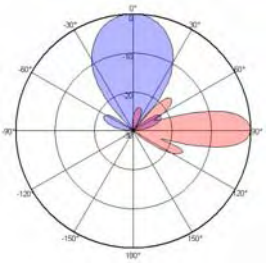
TDQ-809017DME-65F	XXPol	806-960	16.5dBi	65°	0-10° T	1980	14
TDQ-809018DME-65F	XXPol	806-960	18dBi	65°	0-8° T	2580	15

XPol 806～960MHz 33° 18dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

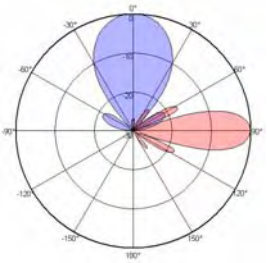
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	17.5	18
Electrical downtilt (°)	0～15	0～15
Half-power beam width (°)	Hor:34 Vert:15	Hor:32 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10°...15° 16...16...15...14	0°...5°...10°...15° 16...15...14...15
Front-to-back ratio (dB)	≥27	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±30° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1325×515×100
Packing size (mm)	1705×630×225
Antenna weight (kg) (with installation kit)	22
Packing weight (kg)	26
Wind loading area (m²)	0.7
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

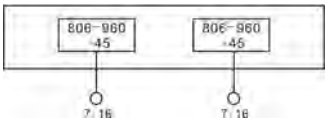


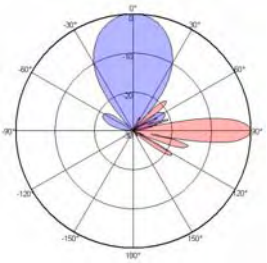
890～960 MHz

XPol 806～960MHz 33° 19dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

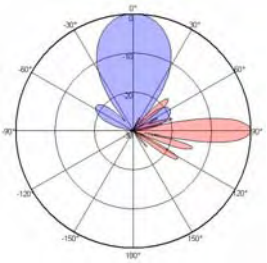
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	18.5	19
Electrical downtilt (°)	0～10	0～10
Half-power beam width (°)	Hor:34 Vert:10	Hor:32 Vert:9.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...5º...10º 16...15...14	0º...5º...10º 16...15...14
Front-to-back ratio (dB)	≥27	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±30° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×530×115
Packing size (mm)	2380×630×225
Antenna weight (kg) (with installation kit)	29
Packing weight (kg)	32
Wind loading area (m²)	1.05
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

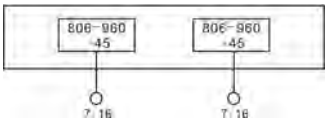


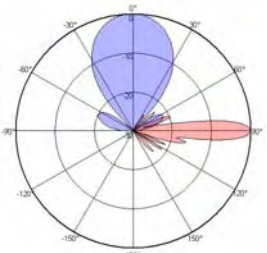
890～960 MHz

XPol 806～960MHz 33° 20.4dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

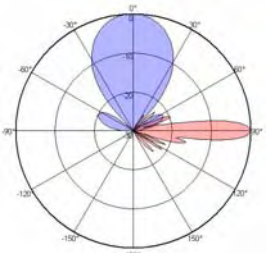
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	19.9	20.4
Electrical downtilt (°)	0～10	0～10
Half-power beam width (°)	Hor:34 Vert:7.5	Hor:32 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 15...15...15	0°...5°...10° 16...15...15
Front-to-back ratio (dB)	≥27	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±30° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2520×515×100
Packing size (mm)	3000×630×225
Antenna weight (kg) (with installation kit)	44
Packing weight (kg)	53
Wind loading area (m²)	1.3
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

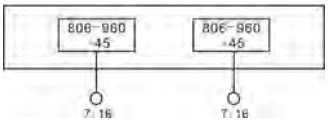


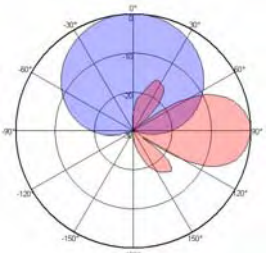
890～960 MHz

XPol 806～960MHz 65° 12dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

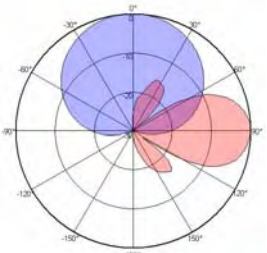
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	12	12.5
Electrical downtilt (°)	0～15	0～15
Half-power beam width (°)	Hor:66 Vert:27	Hor:64 Vert:26
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10°...15° 20...18...17...15	0°...5°...10°...15° 20...18...17...15
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	800×268×138
Packing size (mm)	1150×365×220
Antenna weight (kg) (with installation kit)	11.5
Packing weight (kg)	14.5
Wind loading area (m²)	0.22
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

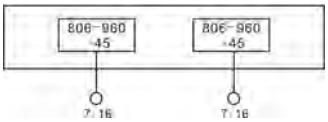


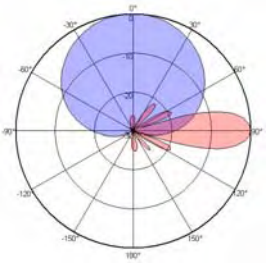
890～960 MHz

XPol 806～960MHz 65° 15dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

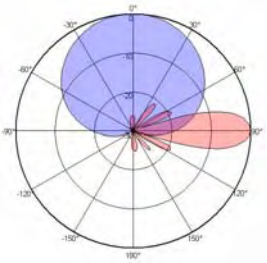
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0～15	0～15
Half-power beam width (°)	Hor:66 Vert:15	Hor:64 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10°...15° 16...16...15...14	0°...5°...10°...15° 16...15...14...15
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1325×268×138
Packing size (mm)	1705×365×220
Antenna weight (kg) (with installation kit)	15
Packing weight (kg)	19
Wind loading area (m²)	0.36
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

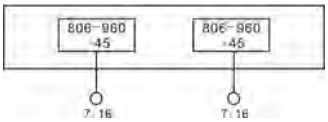


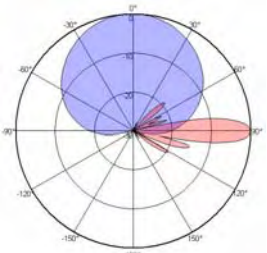
890～960 MHz

XPol 806～960MHz 65° 16.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

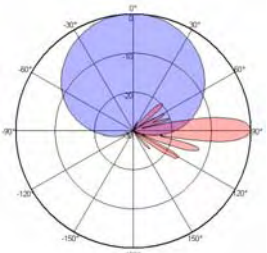
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	16	16.5
Electrical downtilt (°)	0～10	0～10
Half-power beam width (°)	Hor:66 Vert:10	Hor:64 Vert:9.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...5º...10º 16...15...12	0º...5º...10º 16...15...12
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×268×138
Packing size (mm)	2355×365×220
Antenna weight (kg) (with installation kit)	18.5
Packing weight (kg)	23
Wind loading area (m²)	0.53
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

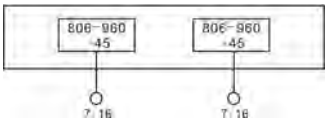


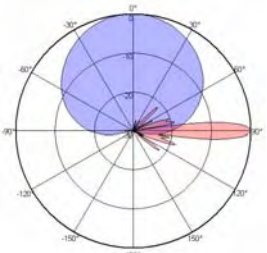
890～960 MHz

XPol 806～960MHz 65° 17.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

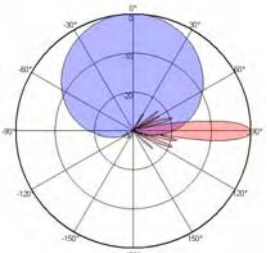
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	17	17.5
Electrical downtilt (°)	0～8	0～8
Half-power beam width (°)	Hor:66 Vert:7.5	Hor:64 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 15...15...15	0°...4°...8° 16...15...15
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2935×365×220
Antenna weight (kg) (with installation kit)	23
Packing weight (kg)	28
Wind loading area (m²)	0.7
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

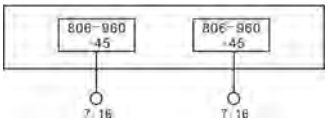


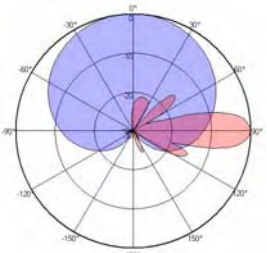
890～960 MHz

XPol 806～960MHz 90° 13.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

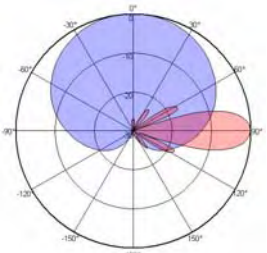
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	13	13.5
Electrical downtilt (°)	0～15	0～15
Half-power beam width (°)	Hor:90 Vert:15	Hor:88 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10°...15° 16...16...15...14	0°...5°...10°...15° 16...15...14...15
Front-to-back ratio (dB)	≥23	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1325×268×138
Packing size (mm)	1705×365×220
Antenna weight (kg) (with installation kit)	15
Packing weight (kg)	19
Wind loading area (m²)	0.36
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

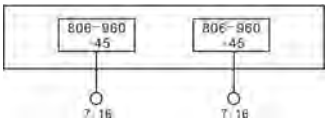


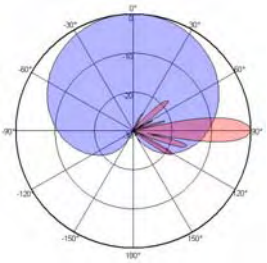
890～960 MHz

XPol 806～960MHz 90° 15dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

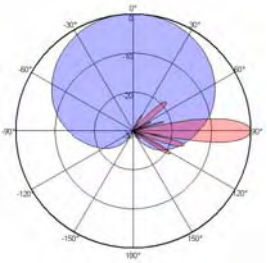
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0～10	0～10
Half-power beam width (°)	Hor:90 Vert:10	Hor:88 Vert:9.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 16...15...12	0°...5°...10° 16...15...13
Front-to-back ratio (dB)	≥23	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×268×138
Packing size (mm)	2355×365×220
Antenna weight (kg) (with installation kit)	18.5
Packing weight (kg)	21.5
Wind loading area (m²)	0.53
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

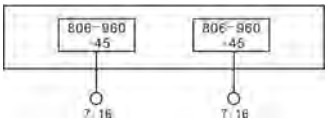


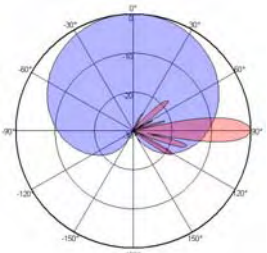
890～960 MHz

XPol 806～960MHz 90° 16dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

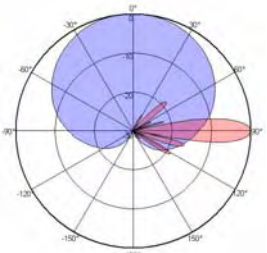
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	15.8	16.1
Electrical downtilt (°)	0～8	0～8
Half-power beam width (°)	Hor:90 Vert:7.5	Hor:88 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 15...15...15	0°...4°...8° 16...15...15
Front-to-back ratio (dB)	≥23	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2935×365×220
Antenna weight (kg) (with installation kit)	23
Packing weight (kg)	28
Wind loading area (m²)	0.7
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

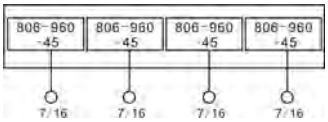


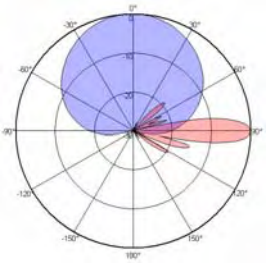
890～960 MHz

XXPol 806～960MHz 65° 16.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

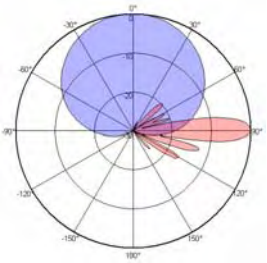
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	16	16.5
Electrical downtilt (°)	0～10	0～10
Half-power beam width (°)	Hor:66 Vert:10	Hor:64 Vert:9.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...5º...10º 15...15...13	0º...5º...10º 16...15...13
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×530×115
Packing size (mm)	2380×630×225
Antenna weight (kg) (with installation kit)	33
Packing weight (kg)	40
Wind loading area (m²)	1.05
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz

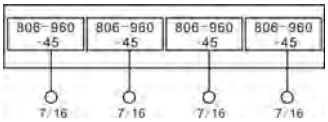


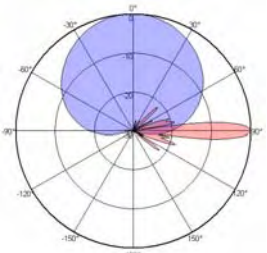
890～960 MHz

XXPol 806～960MHz 65° 18dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

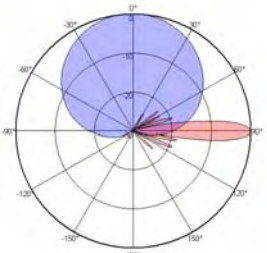
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	17.5	18
Electrical downtilt (°)	0～8	0～8
Half-power beam width (°)	Hor:66 Vert:7.5	Hor:64 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 15...15...15	0°...4°...8° 16...15...15
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×530×115
Packing size (mm)	3040×630×225
Antenna weight (kg) (with installation kit)	42
Packing weight (kg)	50
Wind loading area (m²)	1.37
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





806～890 MHz



890～960 MHz

Fixed Electrical Downtilt Antennas 800/900

Dual Polarization ±45°

Model	Type					Height	Page
TDJ-809015DM-33PT0	XPol	806-960	15dBi	33°	0° T	680	18
TDJ-809018DM-33PTx	XPol	806-960	18dBi	33°	X(0,3,6)	1280	19
TDJ-809019DM-33PT0	XPol	806-960	19dBi	33°	0° T	1980	20
TDJ-809020DM-33PTx	XPol	806-960	20dBi	33°	X(0,3,6)	2580	21
TDJ-809020DM-45PT0	XPol	806-960	20dBi	45°	0° T	2580	22
TDJ-809021DM-30PT0	XPol	806-960	21dBi	30°	0° T	2580	23
TDJ-809012DM-65PT0	XPol	806-960	12dBi	65°	0° T	650	24
TDJ-809015DM-65PTx	XPol	806-960	15dBi	65°	X(0,3,6,9)	1280	25
TDJ-809017DM-65PTx	XPol	806-960	17dBi	65°	X(0,3,6,9)	1980	26
TDJ-809018DM-65FTx	XPol	806-960	18dBi	65°	X(0,3,6,9)	2580	27
TDJ-809019DM-65PT0	XPol	806-960	19dBi	65°	0° T	2890	28
TDJ-809011D-90PT0	XPol	824-960	11dBi	90°	0° T	650	29
TDJ-809014D-90PT0	XPol	824-960	14dBi	90°	0° T	1280	30
TDJ-809015D-90PT0	XPol	824-960	15dBi	90°	0° T	1840	31
TDJ-809016D-90PT0	XPol	824-960	16dBi	90°	0° T	2150	32
TDJ-809017D-90FTx	XPol	806-960	17dBi	90°	X(0,3,6)	2430	33
TDJ-809016D-105PT0	XPol	806-960	16dBi	105°	0° T	2580	34

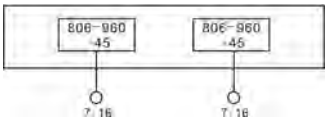
Single Polarization

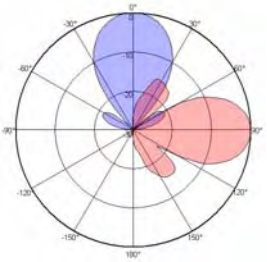
TDJ-809013AM-45	VPol	806-960	13dBi	45°	0° T	650	35
TDJ-809015AM-33PT0	VPol	806-960	15dBi	33°	0° T	680	36
TDJ-809015AM-38CR	VPol	806-960	15dBi	38°	0° T	580	37
TDJ-809018AM-30CR	VPol	824-960	18dBI	30°	0° T	640	38
TDJ-809018AM-33PT0	VPol	806-960	18dBi	33°	0° T	1280	39
TDJ-809020AM-33PT0	VPol	806-960	20dBi	33°	0° T	2580	40
TDJ-809021AM-30PT0	VPol	806-960	21dBi	30°	0° T	2580	41
TDJ-809012AM-65PT0	VPol	824-960	12dBi	65°	0° T	650	42
TDJ-809015AM-65PTx	VPol	806-960	15dBi	65°	X(0,3,6,9)	1280	43
TDJ-809017AM-65PTx	VPol	806-960	17dBi	65°	X(0,3,6,9)	1980	44
TDJ-809018AM-65PTx	VPol	806-960	18dBi	65°	X(0,3,6,9)	2580	45
TDJ-809010A-90PT0	VPol	824-960	10dBi	90°	0° T	730	46
TDJ-809014A-90PT0	VPol	824-960	14dBi	90°	0° T	1280	47
TDJ-809015A-90PT0	VPol	824-960	15dBi	90°	0° T	1840	48
TDJ-809017A-90PTx	VPol	806-960	17dBi	90°	X(0,3,6)	2430	49
TDJ-809009A-120	VPol	806-960	9dBi	120°	0° T	720	50
TDJ-809015A-120PT0	VPol	806-960	15dBi	120°	0° T	2580	51
TDJ-809016A-105PT0	VPol	806-960	16dBi	105°	0° T	2580	52

XPol 806～960MHz 33° 15dBi Fixed Tilt 0° Sector Panel Antenna

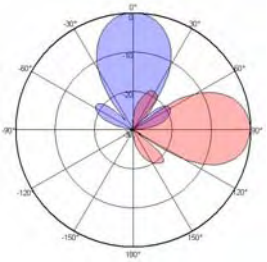
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:33 Vert:30	Hor:30 Vert:28
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±30° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	680×560×85
Packing size (mm)	1000×660×180
Antenna weight (kg) (with installation kit)	16.5
Packing weight (kg)	19
Wind loading area (m²)	0.45
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

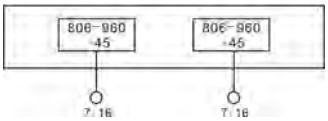


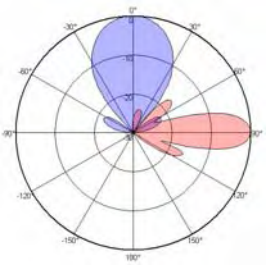
890～960MHz

XPol 806～960MHz 33° 18dBi Fixed Tilt x Sector Panel Antenna

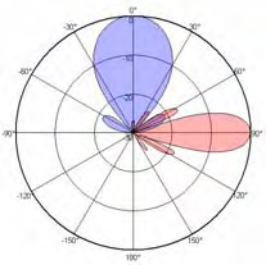
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	17.5	18
Electrical downtilt (°)	X(0,3,6)	
Half-power beam width (°)	Hor:33 Vert:15	Hor:30 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±30° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1280×560×85
Packing size (mm)	1460×620×250
Antenna weight (kg) (with installation kit)	20
Packing weight (kg)	23
Wind loading area (m²)	0.72
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

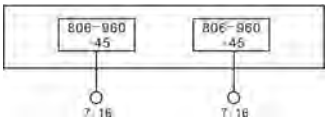


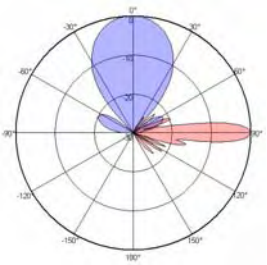
890～960MHz

XPol 806～960MHz 33° 19dBi Fixed Tilt 0° Sector Panel Antenna

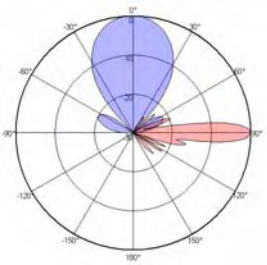
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	18.5	19
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:33 Vert:9	Hor:30 Vert:8.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±30° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×560×85
Packing size (mm)	2140×620×250
Antenna weight (kg) (with installation kit)	28
Packing weight (kg)	38.5
Wind loading area (m²)	1.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

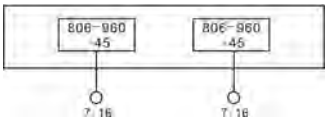


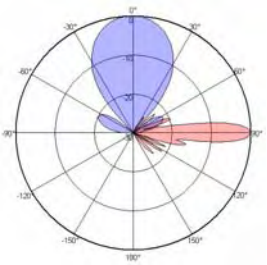
890～960MHz

XPol 806～960MHz 33° 20dBi Fixed Tilt x Sector Panel Antenna

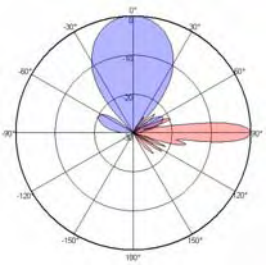
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	20	20.5
Electrical downtilt (°)	X(0,3,6)	
Half-power beam width (°)	Hor:33 Vert:7	Hor:30 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±30° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×560×85
Packing size (mm)	2690×620×250
Antenna weight (kg) (with installation kit)	37
Packing weight (kg)	43
Wind loading area (m²)	1.4
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

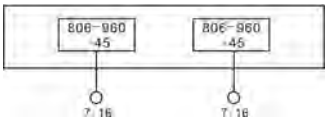


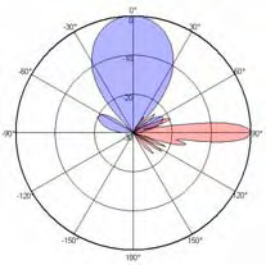
890～960MHz

XPol 806～960MHz 45° 20dBi Fixed Tilt 0° Sector Panel Antenna

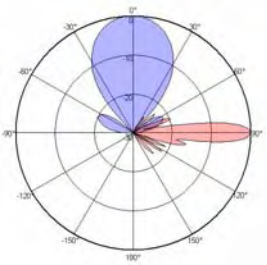
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	20	20.5
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:48 Vert:7	Hor:45 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±30° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×560×85
Packing size (mm)	2690×620×250
Antenna weight (kg) (with installation kit)	37
Packing weight (kg)	43
Wind loading area (m²)	1.4
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

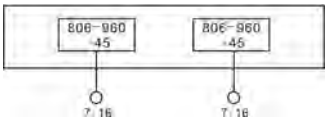


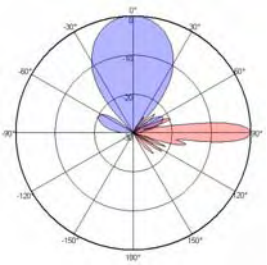
890～960MHz

XPol 806～960MHz 30° 21dBi Fixed Tilt 0° Sector Panel Antenna

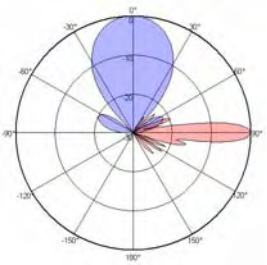
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	20.5	21
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:32 Vert:7	Hor:29 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±30° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×560×85
Packing size (mm)	2690×620×250
Antenna weight (kg) (with installation kit)	37
Packing weight (kg)	43
Wind loading area (m²)	1.4
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

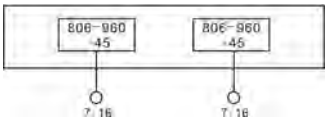


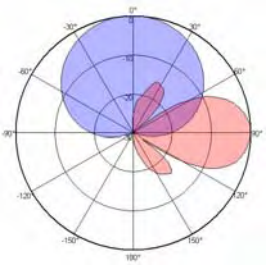
890～960MHz

XPol 806～960MHz 65° 12dBi Fixed Tilt 0° Sector Panel Antenna

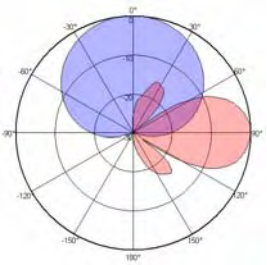
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	11.5	12
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:68 Vert:30	Hor:65 Vert:28
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	650×280×85
Packing size (mm)	810×370×180
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.18
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





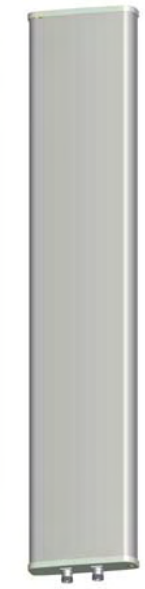
806～890MHz



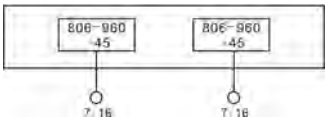
890～960MHz

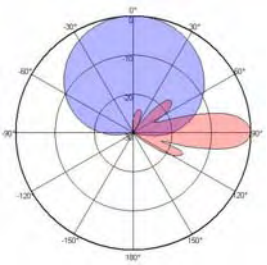
XPol 806～960MHz 65° 15dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	14.5	15
Electrical downtilt (°)	X(0,3,6,9)	
Half-power beam width (°)	Hor:68 Vert:14	Hor:65 Vert:13
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

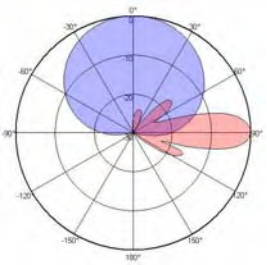


Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1280×280×85
Packing size (mm)	1635×370×180
Antenna weight (kg) (with installation kit)	12
Packing weight (kg)	15
Wind loading area (m²)	0.33
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





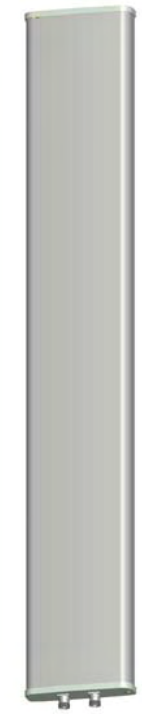
806～890MHz



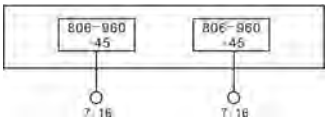
890～960MHz

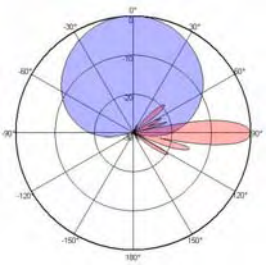
XPol 806～960MHz 65° 17dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	16.5	17
Electrical downtilt (°)	X(0,3,6,9)	
Half-power beam width (°)	Hor:68 Vert:9.5±0.5	Hor:65 Vert:9±0.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

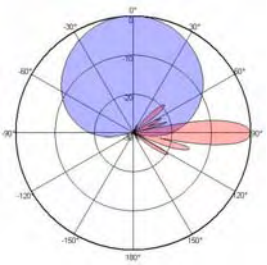


Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×280×85
Packing size (mm)	2360×370×180
Antenna weight (kg) (with installation kit)	16.5
Packing weight (kg)	20.5
Wind loading area (m²)	0.6
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





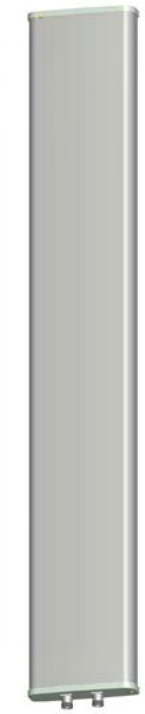
806～890MHz



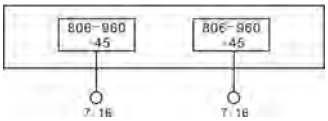
890～960MHz

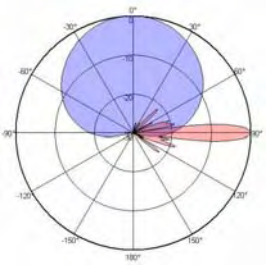
XPol 806～960MHz 65° 18dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	17.5	18
Electrical downtilt (°)	X(0,3,6,9)	
Half-power beam width (°)	Hor:68 Vert:7.5	Hor:65 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

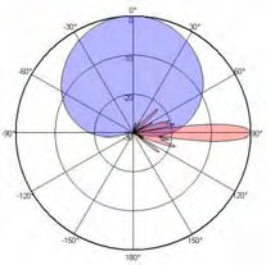


Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×280×85
Packing size (mm)	2905×370×180
Antenna weight (kg) (with installation kit)	24.5
Packing weight (kg)	30
Wind loading area (m²)	0.72
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

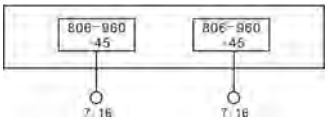


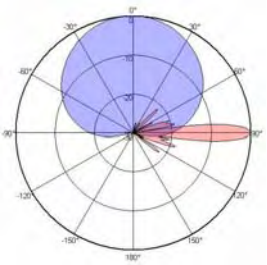
890～960MHz

XPol 806～960MHz 65° 19dBi Fixed Tilt 0° Sector Panel Antenna

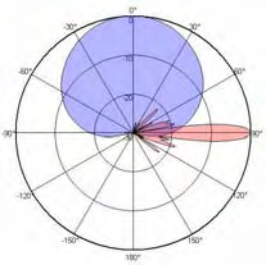
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	18.5	19
Electrical downtilt (°)	0	
Half-power beam width (°)	Hor:68 Vert:6.5	Hor:65 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2890×280×85
Packing size (mm)	3210×365×175
Antenna weight (kg) (with installation kit)	25
Packing weight (kg)	33
Wind loading area (m²)	0.8
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

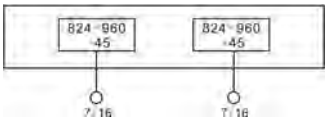


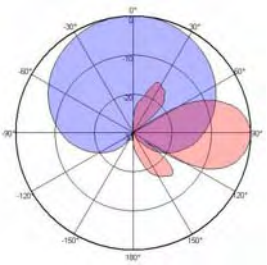
890～960MHz

XPol 824～960MHz 90° 11dBi Fixed Tilt 0° Sector Panel Antenna

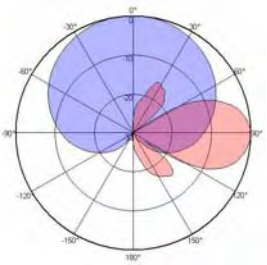
Electrical specifications		
Frequency range (MHz)	824～890	890～960
Polarization	±45°	
Gain (dBi)	10.5	11
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:32	Hor:85 Vert:30
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	650×268×138
Packing size (mm)	810×370×225
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.18
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





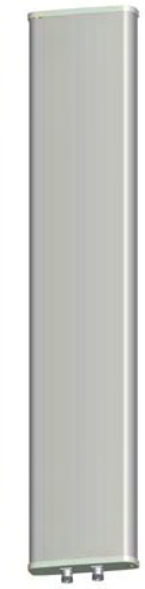
824～890MHz



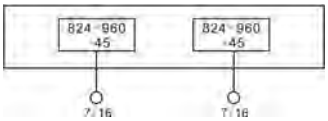
890～960MHz

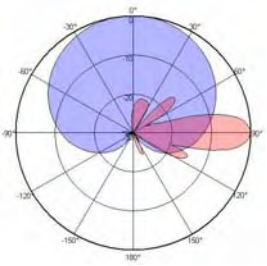
XPol 824～960MHz 90° 14dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	824～890	890～960
Polarization	±45°	
Gain (dBi)	13.5	14
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:15	Hor:85 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

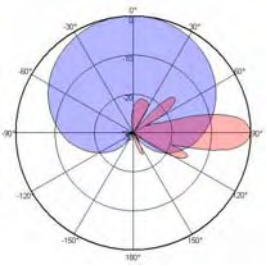


Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1280×280×85
Packing size (mm)	1670×370×180
Antenna weight (kg) (with installation kit)	12.5
Packing weight (kg)	15.5
Wind loading area (m²)	0.36
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





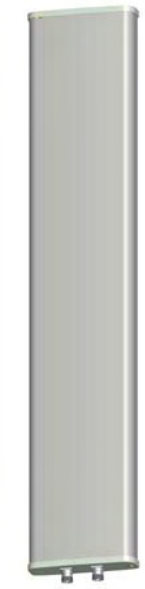
824～890MHz



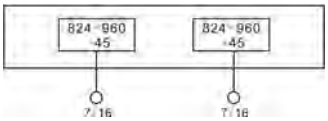
890～960MHz

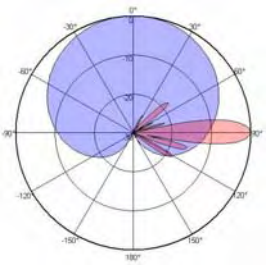
XPol 824～960MHz 90° 15dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	824～890	890～960
Polarization	±45°	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:9.5	Hor:85 Vert:8.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

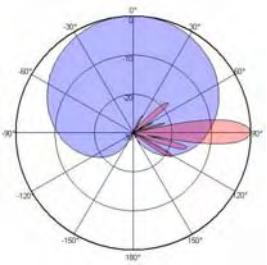


Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1840×280×85
Packing size (mm)	2000×370×180
Antenna weight (kg) (with installation kit)	16.5
Packing weight (kg)	21.5
Wind loading area (m²)	0.55
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





824～890MHz

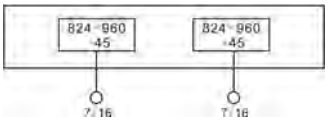


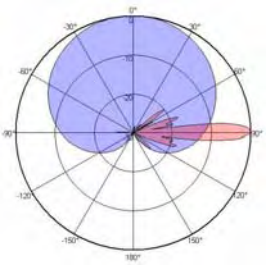
890～960MHz

XPol 824～960MHz 90° 16dBi Fixed Tilt 0° Sector Panel Antenna

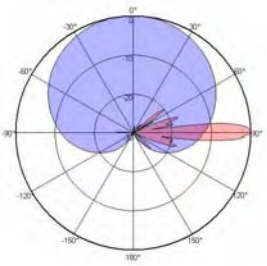
Electrical specifications		
Frequency range (MHz)	824～890	890～960
Polarization	±45°	
Gain (dBi)	≥16	≥16
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90±4 Vert:8.5±1	Hor:90±4 Vert:8.5±1
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥20(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2150×268×138
Packing size (mm)	2530×370×225
Antenna weight (kg) (with installation kit)	17.5
Packing weight (kg)	22.5
Wind loading area (m²)	0.6
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





824～890MHz

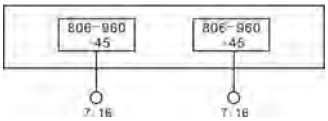


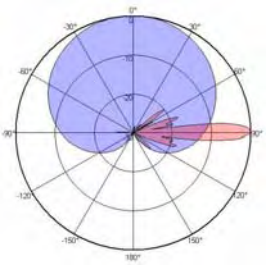
890～960MHz

XPol 806～960MHz 90° 17dBi Fixed Tilt x Sector Panel Antenna

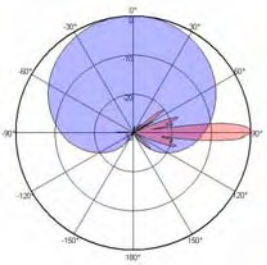
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	16.5	17
Electrical downtilt (°)	X(0,3,6)	
Half-power beam width (°)	Hor:90 Vert:7.5	Hor:85 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2430×280×85
Packing size (mm)	2580×370×180
Antenna weight (kg) (with installation kit)	20.5
Packing weight (kg)	25.5
Wind loading area (m²)	0.68
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

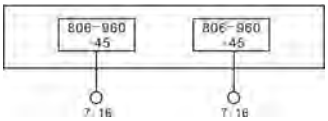


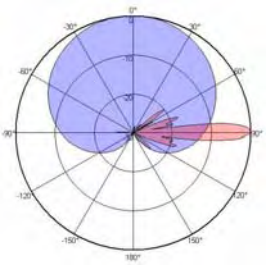
890～960MHz

XPol 806～960MHz 105° 16dBi Fixed Tilt 0° Sector Panel Antenna

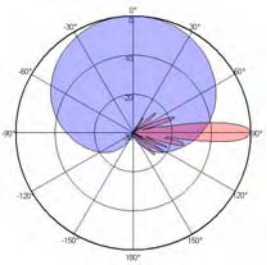
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	±45°	
Gain (dBi)	15.5	16
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:105 Vert:7.5	Hor:100 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥21	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2900×370×225
Antenna weight (kg) (with installation kit)	20.5
Packing weight (kg)	25.5
Wind loading area (m²)	0.68
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





806～890MHz

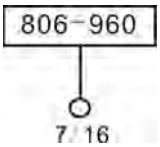


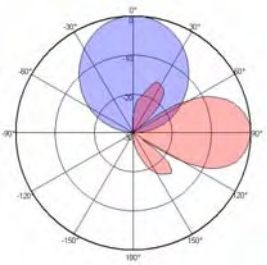
890～960MHz

VPol 806～960MHz 45° 13dBi Fixed Tilt 0° Sector Panel Antenna

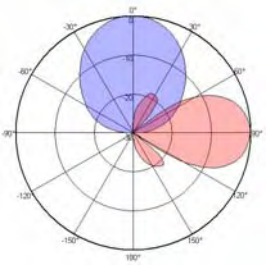
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	13	13.5
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:45 Vert:30	Hor:40 Vert:28
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	650×280×85
Packing size (mm)	810×365×230
Antenna weight (kg) (with installation kit)	6
Packing weight (kg)	8
Wind loading area (m²)	0.18
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	ϕ50～ϕ115





806～890MHz

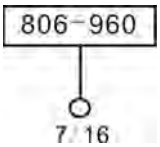


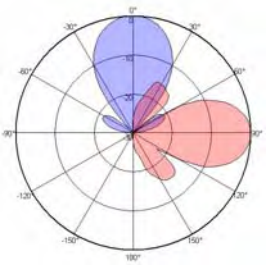
890～960MHz

VPol 806～960MHz 33° 15dBi Fixed Tilt 0° Sector Panel Antenna

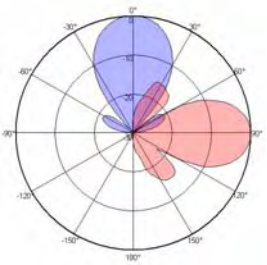
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:33 Vert:30	Hor:30 Vert:30
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	680×560×85
Packing size (mm)	810×620×250
Antenna weight (kg) (with installation kit)	15.6
Packing weight (kg)	20.5
Wind loading area (m²)	0.36
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ40～φ110





806～890MHz

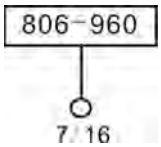


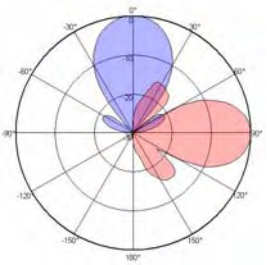
890～960MHz

VPol 806～960MHz 38° 15dBi Fixed Tilt 0° Sector Panel Antenna

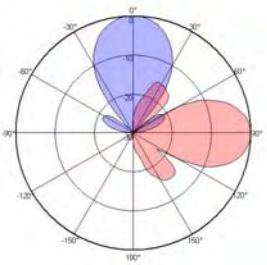
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	
Half-power beam width (°)	Hor:38 Vert:30	Hor:35 Vert:28
Sidelobe suppression (dB) (First sidelobe above main beam)	⩾12	
Front-to-back ratio (dB)	⩾30	
Impedance (Ω)	50	
VSWR	⩽1.4	
Intermodulation IM3 (2×43dBm carrier)	⩽-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×width×depth (mm)	580×600×350
Packing size (mm)	700×385×240
Antenna weight (kg) (with installation kit)	18
Packing weight (kg)	7.5
Wind loading area (m²)	0.35
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～890MHz

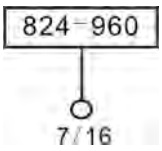


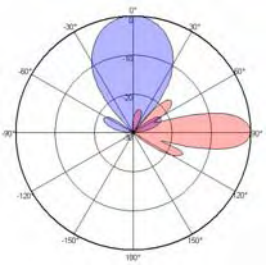
890～960MHz

VPol 824～960MHz 30° 18dBi Fixed Tilt 0° Sector Panel Antenna

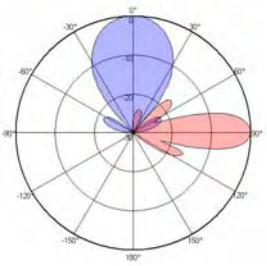
Electrical specifications		
Frequency range (MHz)	824～890	890～960
Polarization	Vertical	
Gain (dBi)	17.5	18
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:30 Vert:15	Hor:28 Vert:14.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	640×600×330
Packing size (mm)	745×385×240
Antenna weight (kg) (with installation kit)	12.5
Packing weight (kg)	16.5
Wind loading area (m²)	0.69
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ100





824～890MHz

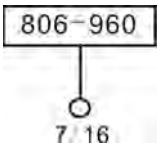


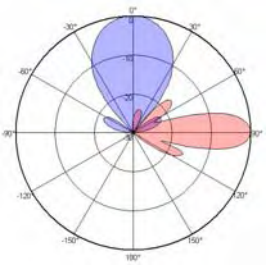
890～960MHz

VPol 806～960MHz 33° 18dBi Fixed Tilt 0° Sector Panel Antenna

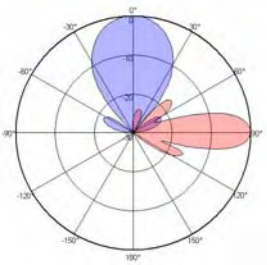
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	17.5	18
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:33 Vert:15	Hor:30 Vert:14.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1280×560×85
Packing size (mm)	1460×620×250
Antenna weight (kg) (with installation kit)	28.5
Packing weight (kg)	32.5
Wind loading area (m²)	0.36
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ40～φ110





806～890MHz

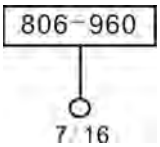


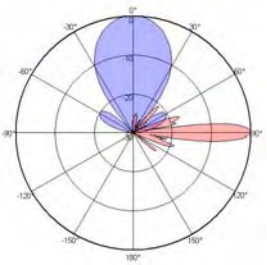
890～960MHz

VPol 806～960MHz 33° 20dBi Fixed Tilt 0° Sector Panel Antenna

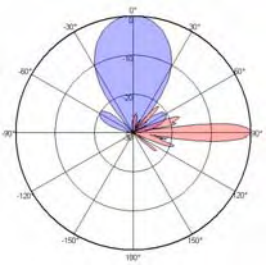
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	19.5	20
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:33 Vert:7	Hor:30 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥30	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×560×85
Packing size (mm)	2690×620×250
Antenna weight (kg) (with installation kit)	37.5
Packing weight (kg)	43.5
Wind loading area (m²)	1.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～890MHz

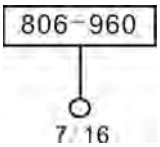


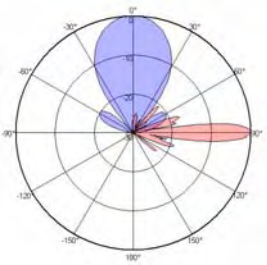
890～960MHz

VPol 806～960MHz 30° 21dBi Fixed Tilt 0° Sector Panel Antenna

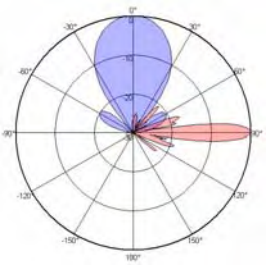
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	20.5	21
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:32 Vert:7	Hor:29 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	⩾16	
Front-to-back ratio (dB)	⩾30	
Impedance (Ω)	50	
VSWR	⩽1.4	
Intermodulation IM3 (2×43dBm carrier)	⩽-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×560×85
Packing size (mm)	2690×620×250
Antenna weight (kg) (with installation kit)	37.5
Packing weight (kg)	43.5
Wind loading area (m²)	1.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～890MHz

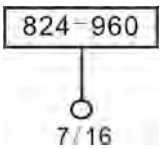


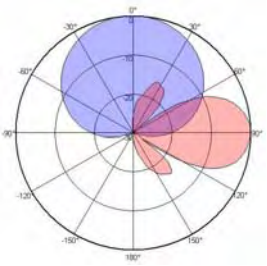
890～960MHz

VPol 824～960MHz 65° 12dBi Fixed Tilt 0° Sector Panel Antenna

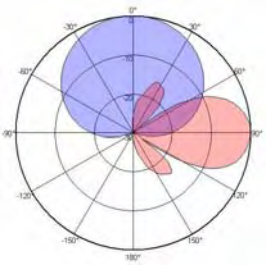
Electrical specifications		
Frequency range (MHz)	824～890	890～960
Polarization	Vertical	
Gain (dBi)	11.5	12
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:30	Hor:63 Vert:28
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	650×280×85
Packing size (mm)	810×370×230
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.18
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





824～890MHz

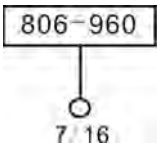


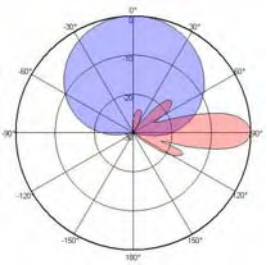
890～960MHz

VPol 806～960MHz 65° 15dBi Fixed Tilt x Sector Panel Antenna

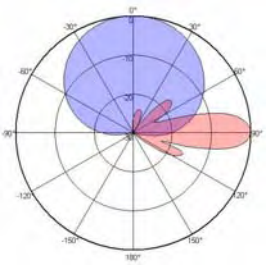
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	14.5	15
Electrical downtilt (°)	X(0,3,6,9)	
Half-power beam width (°)	Hor:65 Vert:15	Hor:63 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	⩾16	
Front-to-back ratio (dB)	⩾30	
Impedance (Ω)	50	
VSWR	⩽1.4	
Intermodulation IM3 (2×43dBm carrier)	⩽-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1280×280×85
Packing size (mm)	1670×370×180
Antenna weight (kg) (with installation kit)	13.5
Packing weight (kg)	16.5
Wind loading area (m²)	0.36
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





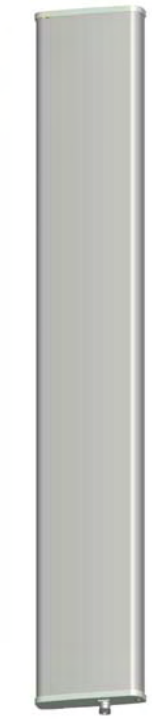
806～890MHz



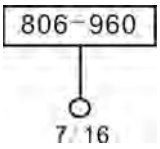
890～960MHz

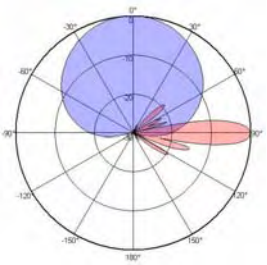
VPol 806～960MHz 65° 17dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	16.5	17
Electrical downtilt (°)	X(0,3,6,9)	
Half-power beam width (°)	Hor:65 Vert:9	Hor:63 Vert:8.5
Sidelobe suppression (dB) (First sidelobe above main beam)	⩾16	
Front-to-back ratio (dB)	⩾30	
Impedance (Ω)	50	
VSWR	⩽1.4	
Intermodulation IM3 (2×43dBm carrier)	⩽-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

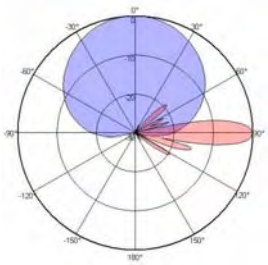


Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×280×85
Packing size (mm)	2360×370×180
Antenna weight (kg) (with installation kit)	16.5
Packing weight (kg)	20.5
Wind loading area (m²)	0.55
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





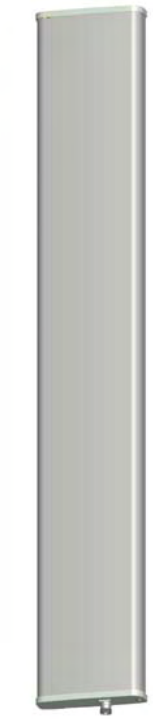
806～890MHz



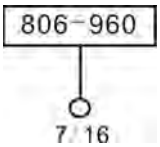
890～960MHz

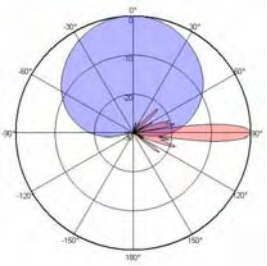
VPol 806～960MHz 65° 18dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	17.5	18
Electrical downtilt (°)	X(0,3,6,9)	
Half-power beam width (°)	Hor:65 Vert:7.5	Hor:63 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	⩾16	
Front-to-back ratio (dB)	⩾30	
Impedance (Ω)	50	
VSWR	⩽1.4	
Intermodulation IM3 (2×43dBm carrier)	⩽-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

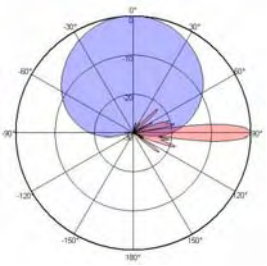


Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×280×85
Packing size (mm)	2905×370×180
Antenna weight (kg) (with installation kit)	19.5
Packing weight (kg)	23.5
Wind loading area (m²)	0.73
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





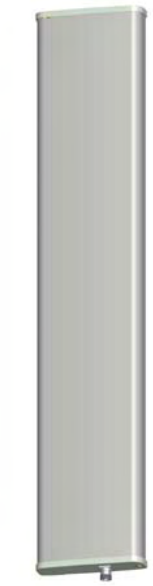
806～890MHz



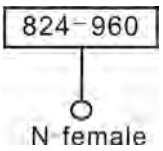
890～960MHz

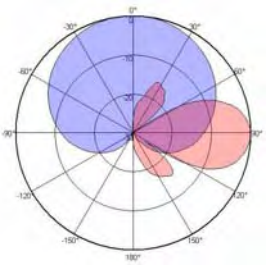
VPol 824～960MHz 90° 10dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	824～890	890～960
Polarization	Vertical	
Gain (dBi)	10	10.5
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:30	Hor:85 Vert:28
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

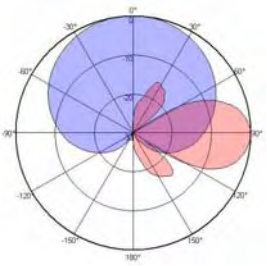


Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×width×depth (mm)	730×280×110
Packing size (mm)	785×300×245
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.18
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





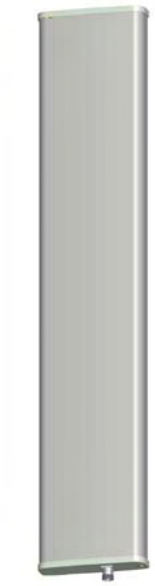
824～890MHz



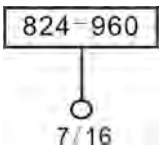
890～960MHz

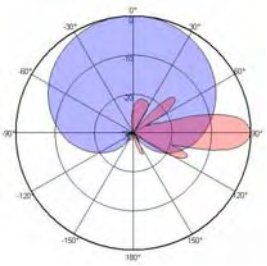
VPol 824～960MHz 90° 14dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	824～890	890～960
Polarization	Vertical	
Gain (dBi)	13.5	14
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:15	Hor:85 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

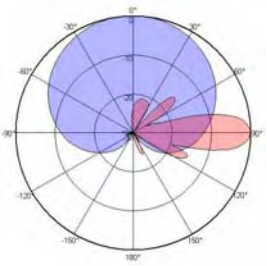


Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1280×280×85
Packing size (mm)	1670×370×180
Antenna weight (kg) (with installation kit)	12.5
Packing weight (kg)	15.5
Wind loading area (m²)	0.36
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





824～890MHz

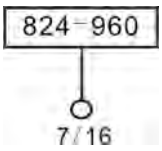


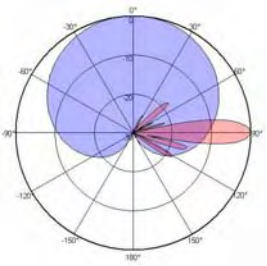
890～960MHz

VPol 824～960MHz 90° 15dBi Fixed Tilt 0° Sector Panel Antenna

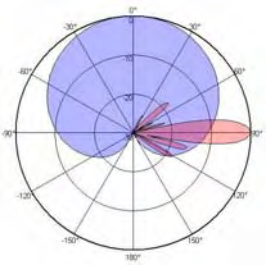
Electrical specifications		
Frequency range (MHz)	824～890	890～960
Polarization	Vertical	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:9	Hor:85 Vert:8.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1840×280×85
Packing size (mm)	2000×370×180
Antenna weight (kg) (with installation kit)	16.5
Packing weight (kg)	21.5
Wind loading area (m²)	0.55
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





824～890MHz

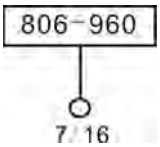


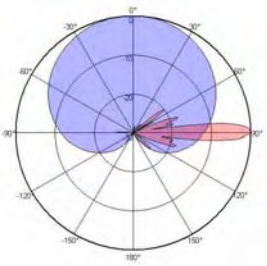
890～960MHz

VPol 806～960MHz 90° 17dBi Fixed Tilt x Sector Panel Antenna

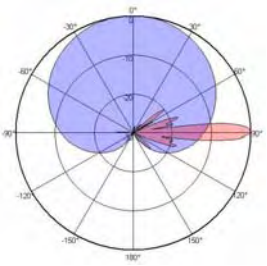
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	16.5	17
Electrical downtilt (°)	X(0,3,6)	
Half-power beam width (°)	Hor:90 Vert:7.5	Hor:85 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2430×280×85
Packing size (mm)	2770×365×175
Antenna weight (kg) (with installation kit)	16
Packing weight (kg)	19
Wind loading area (m²)	0.68
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～890MHz

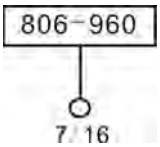


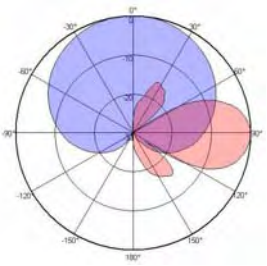
890～960MHz

VPol 806～960MHz 120° 9dBi Fixed Tilt 0° Sector Panel Antenna

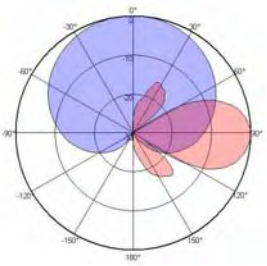
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	8.5	9
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:120 Vert:30	Hor:115 Vert:28
Front-to-back ratio (dB)	≥18	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	720×268×138
Packing size (mm)	785×370×225
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.18
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	ϕ50～ϕ115





806～890MHz

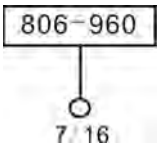


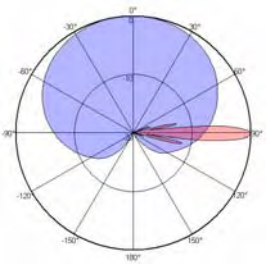
890～960MHz

VPol 806～960MHz 120° 15dBi Fixed Tilt 0° Sector Panel Antenna

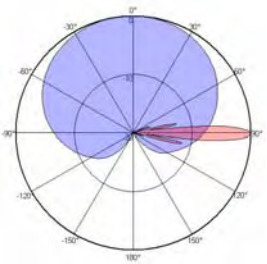
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:120 Vert:6.5	Hor:115 Vert:6
Front-to-back ratio (dB)	≥18	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×280×85
Packing size (mm)	2900×370×180
Antenna weight (kg) (with installation kit)	17.5
Packing weight (kg)	22.5
Wind loading area (m²)	0.68
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	ϕ50～ϕ115





806～890MHz

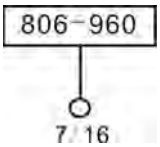


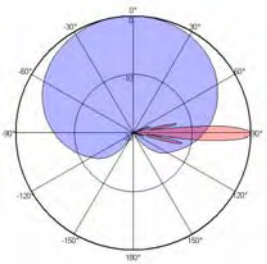
890～960MHz

VPol 806～960MHz 105° 16dBi Fixed Tilt 0° Sector Panel Antenna

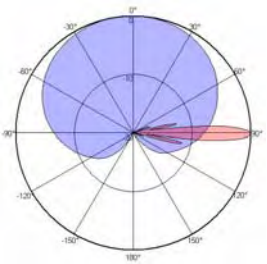
Electrical specifications		
Frequency range (MHz)	806～890	890～960
Polarization	Vertical	
Gain (dBi)	15.5	16
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:105 Vert:7.5	Hor:100 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16	
Front-to-back ratio (dB)	≥21	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2900×370×225
Antenna weight (kg) (with installation kit)	20.5
Packing weight (kg)	25.5
Wind loading area (m²)	0.68
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～890MHz



890～960MHz

Variable Electrical Downtilt Antennas 1800/1900/2000

Dual Polarization ±45°

Model	Type					Height	Page
TDJ-182021DE-33P	XPol	1710-2170	21dBi	33°	0-10° T	1360	54
TDJ-182012DE-65F	XPol	1710-2170	12dBi	65°	0-12° T	420	55
TDJ-182015DE-65F	XPol	1710-2170	15dBi	65°	0-12° T	760	56
TDJ-182018DE-65PT2	XPol	1710-2170	17.5dBi	65°	2-10° T	1360	57
TDJH-182017DE-65F	XPol	1710-2170	17dBi	65°	0-10° T	1080	58
TDJH-182018DE-65F	XPol	1710-2170	17.8dBi	65°	0-10° T	1360	59
TDJH-182020DE-65F	XPol	1710-2170	19.5dBi	65°	0-6° T	1980	60
TDJ-182014DE-90F	XPol	1710-2170	14dBi	90°	0-12° T	760	61
TDJ-182017DE-90F	XPol	1710-2170	16.8dBi	90°	0-10° T	1360	62
TDJ-182018DE-90F	XPol	1710-2170	18dBi	90°	0-6° T	1980	63

Side by Side Antenna

TDQ-182015DE-65P	XXPol	1710-2170	15dBi	65°	0-12° T	760	64
TDQ-182020DE-65P	XXPol	1710-2170	19.5dBi	65°	0-6° T	1980	65
TDQH-182018DE-65P	XXPol	1710-2170	17.8dBi	65°	0-10° T	1360	66
TDT-182018DE-65P	XXXPol	1710-2170	17.5dBi	65°	0-10° T	1360	67
TDT-182020DE-65P	XXXPol	1710-2170	19.5dBi	65°	0-6° T	1980	68

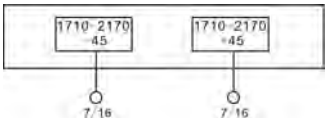
Tri-Sector Pipe Antenna

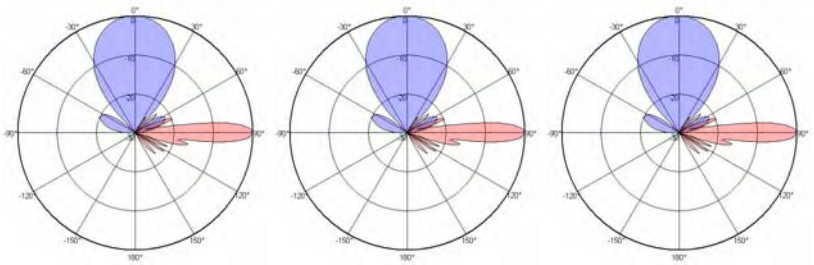
TTS-182018DE-65P2	XPol	1710-2170	17.5dBi	65°	0-10° T	2090	69
TTS-182018DE-65P-A	XPol	1710-2170	17.5dBi	65°	0-10° T	2090	70

XPol 1710～2170MHz 33° 21dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	20.1	20.5	20.7
Electrical downtilt (°)	0～10	0～10	0～10
Half-power beam width (°)	Hor:34 Vert:7.3	Hor:32 Vert:6.8	Hor:30 Vert:6.3
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 15...15...14	0°...5°...10° 16...15...15	0°...5°...10° 16...15...15
Front-to-back ratio (dB)	≥27		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±30° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1360×280×85
Packing size (mm)	1755×365×185
Antenna weight (kg) (with installation kit)	18
Packing weight (kg)	21
Wind loading area (m²)	0.38
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



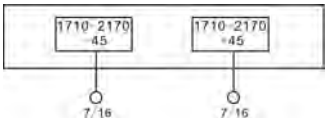


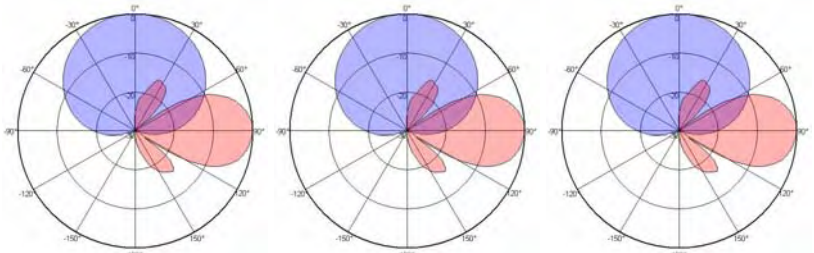
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XPol 1710～2170MHz 65° 12dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	11.8	12	12.1
Electrical downtilt (°)	0～12	0～12	0～12
Half-power beam width (°)	Hor:66 Vert:26	Hor:65 Vert:25	Hor:64 Vert:23
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...6°...12° 16...15...14	0°...6°...12° 16...15...15	0°...6°...12° 16...15...14
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	420×160×80
Packing size (mm)	905×215×160
Antenna weight (kg) (with installation kit)	4
Packing weight (kg)	5
Wind loading area (m²)	0.07
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



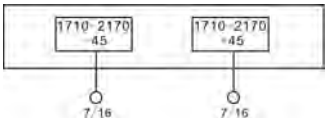


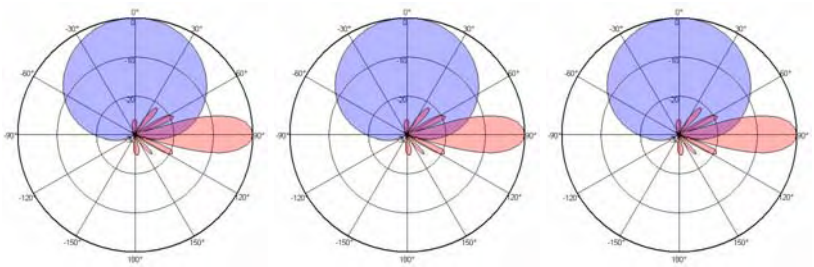
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XPol 1710～2170MHz 65° 15dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	14.5	14.7	15
Electrical downtilt (°)	0～12	0～12	0～12
Half-power beam width (°)	Hor:66 Vert:14	Hor:65 Vert:13	Hor:64 Vert:12
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...6°...12° 15...15...14	0°...6°...12° 15...16...12	0°...6°...12° 15...16...12
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	760×160×80
Packing size (mm)	1270×215×160
Antenna weight (kg) (with installation kit)	7.5
Packing weight (kg)	9.5
Wind loading area (m²)	0.13
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



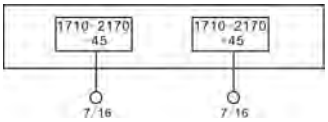


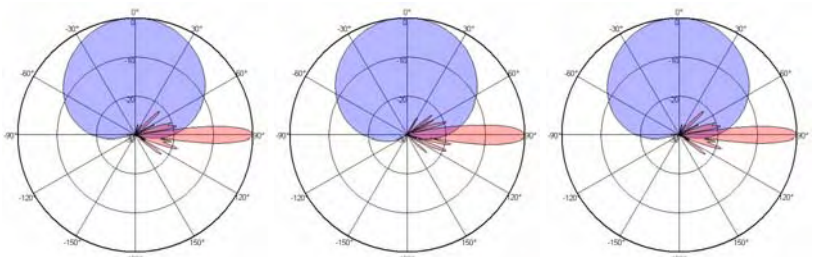
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XPol 1710～2170MHz 65° 17.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17	17.3	17.5
Electrical downtilt (°)	2～10	2～10	2～10
Half-power beam width (°)	Hor:67 Vert:7.3	Hor:65 Vert:6.9	Hor:64 Vert:6.4
Sidelobe suppression (dB) (First sidelobe above main beam)	2º...6º...10º 16...15...15	2º...6º...10º 16...15...15	2º...6º...10º 16...15...15
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	150W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1360×160×80
Packing size (mm)	1855×215×160
Antenna weight (kg) (with installation kit)	11
Packing weight (kg)	13
Wind loading area (m²)	0.22
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



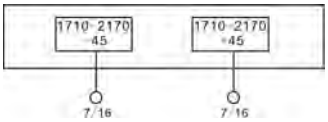


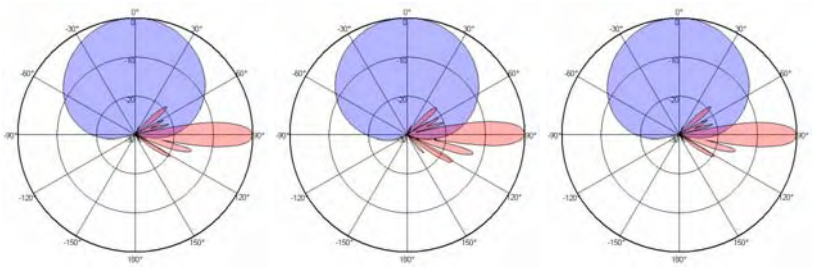
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 65° 17dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	16.5	16.8	17
Electrical downtilt (°)	0～10	0～10	0～10
Half-power beam width (°)	Hor:66 Vert:9.5	Hor:65 Vert:9	Hor:64 Vert:8.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 16...15...14	0°...5°...10° 16...15...15	0°...5°...10° 16...15...15
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1080×160×80
Packing size (mm)	1575×215×160
Antenna weight (kg) (with installation kit)	9.5
Packing weight (kg)	11
Wind loading area (m²)	0.18
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



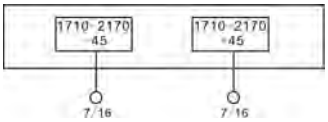


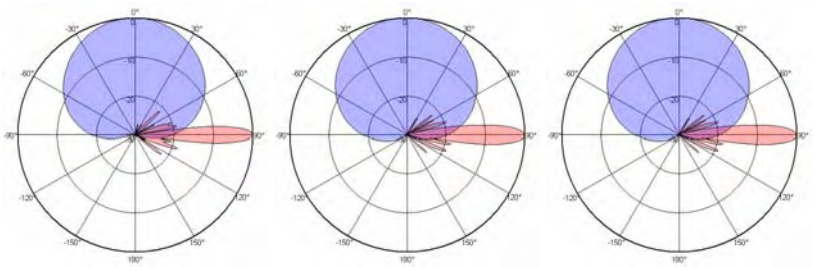
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XPol 1710～2170MHz 65° 17.8dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17.5	17.7	17.8
Electrical downtilt (°)	0～10	0～10	0～10
Half-power beam width (°)	Hor:66 Vert:7	Hor:65 Vert:6.7	Hor:64 Vert:6.3
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 16...15...15	0°...5°...10° 16...15...15	0°...5°...10° 16...15...16
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1360×160×80
Packing size (mm)	1855×215×160
Antenna weight (kg) (with installation kit)	11
Packing weight (kg)	13
Wind loading area (m²)	0.22
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



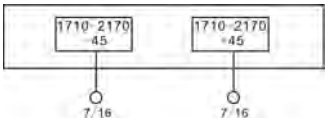


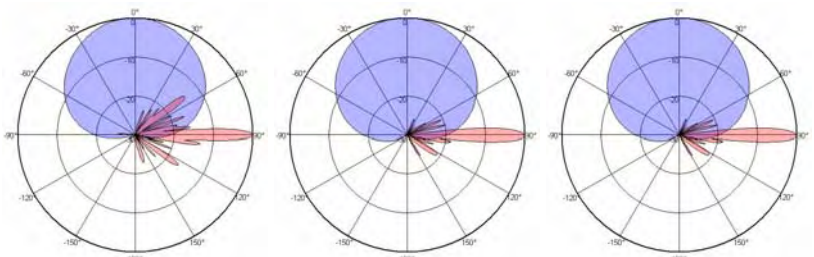
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XPol 1710～2170MHz 65° 19.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	19	19.3	19.5
Electrical downtilt (°)	0～6	0～6	0～6
Half-power beam width (°)	Hor:67 Vert:5	Hor:65 Vert:4.7	Hor:63 Vert:4.3
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...3°...6° 16...15...14	0°...3°...6° 16...15...15	0°...3°...6° 16...15...15
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×160×80
Packing size (mm)	2460×215×160
Antenna weight (kg) (with installation kit)	14
Packing weight (kg)	17
Wind loading area (m²)	0.32
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



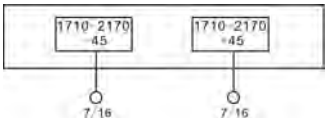


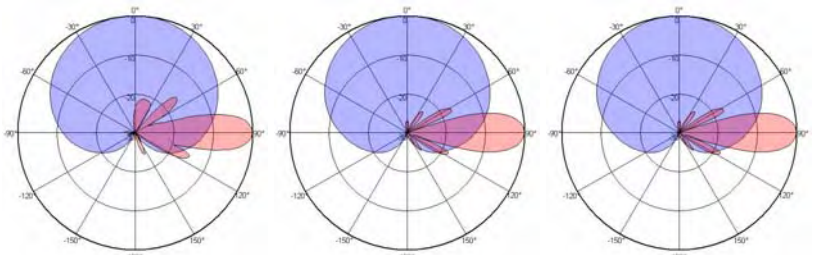
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XPol 1710～2170MHz 90° 14dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	13.7	13.9	14.1
Electrical downtilt (°)	0～12	0～12	0～12
Half-power beam width (°)	Hor:88 Vert:14.5	Hor:88 Vert:14	Hor:90 Vert:13.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...6°...12° 15...15...14	0°...6°...12° 15...15...14	0°...6°...12° 15...15...14
Front-to-back ratio (dB)	≥23		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	760×160×80
Packing size (mm)	1245×215×160
Antenna weight (kg) (with installation kit)	8
Packing weight (kg)	10
Wind loading area (m²)	0.13
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



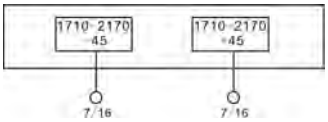


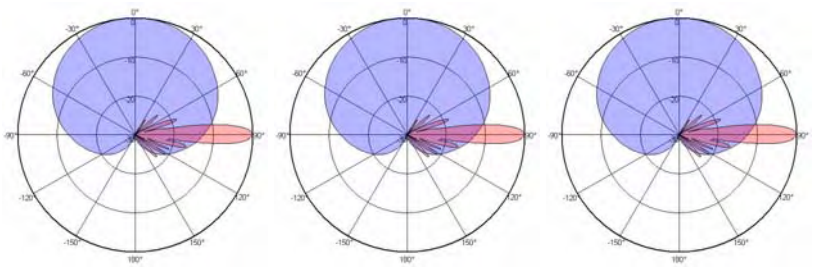
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XPol 1710～2170MHz 90° 16.8dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	16.5	16.8	16.7
Electrical downtilt (°)	0～10	0～10	0～10
Half-power beam width (°)	Hor:88 Vert:7.5	Hor:88 Vert:7	Hor:90 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 16...15...14	0°...5°...10° 16...15...15	0°...5°...10° 16...15...15
Front-to-back ratio (dB)	≥23		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1360×160×80
Packing size (mm)	1855×215×160
Antenna weight (kg) (with installation kit)	11
Packing weight (kg)	13
Wind loading area (m²)	0.22
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



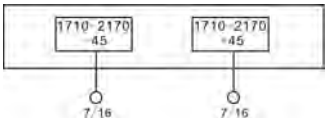


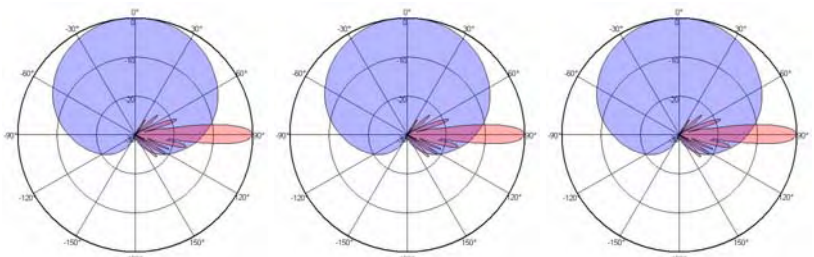
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XPol 1710～2170MHz 90° 18dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17.7	18	18.2
Electrical downtilt (°)	0～6	0～6	0～6
Half-power beam width (°)	Hor:88 Vert:5	Hor:88 Vert:4.7	Hor:90 Vert:4.3
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...3°...6° 16...15...15	0°...3°...6° 16...15...15	0°...3°...6° 16...15...15
Front-to-back ratio (dB)	≥23		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×160×80
Packing size (mm)	2460×215×160
Antenna weight (kg) (with installation kit)	14
Packing weight (kg)	17
Wind loading area (m²)	0.32
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



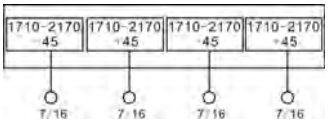


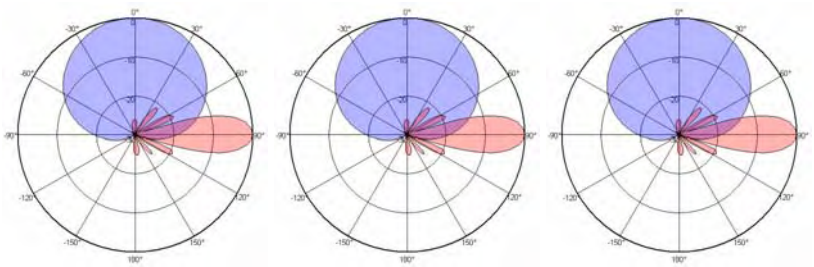
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XXPol 1710～2170MHz 65° 15dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	14.5	14.7	15
Electrical downtilt (°)	0～12	0～12	0～12
Half-power beam width (°)	Hor:66 Vert:15	Hor:65 Vert:14	Hor:63 Vert:13
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...6°...12° 15...15...14	0°...6°...12° 15...16...12	0°...6°...12° 15...16...12
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	760×320×80
Packing size (mm)	1270×410×160
Antenna weight (kg) (with installation kit)	10.5
Packing weight (kg)	13.5
Wind loading area (m²)	0.25
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



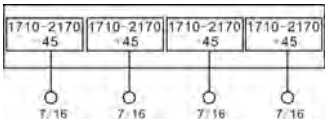


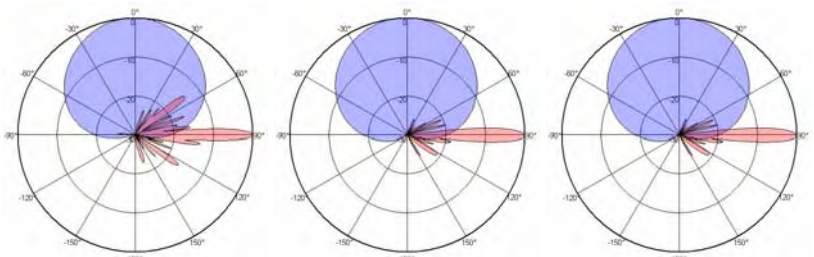
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XXPol 1710～2170MHz 65° 19.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	19	19.3	19.5
Electrical downtilt (°)	0～6	0～6	0～6
Half-power beam width (°)	Hor:68 Vert:5	Hor:65 Vert:4.7	Hor:62 Vert:4.3
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...3°...6° 16...15...14	0°...3°...6° 16...15...15	0°...3°...6° 16...15...15
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×280×85
Packing size (mm)	2475×365×185
Antenna weight (kg) (with installation kit)	23
Packing weight (kg)	27
Wind loading area (m²)	0.56
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50~φ115



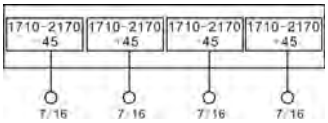


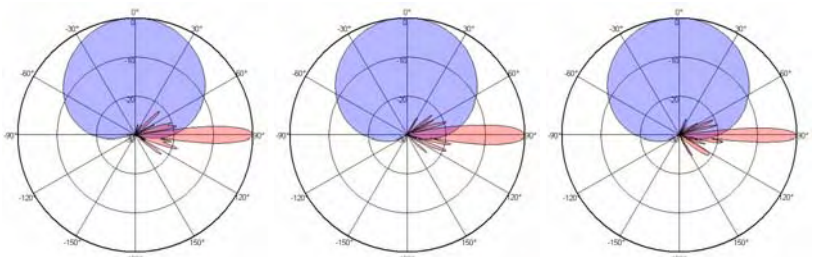
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XXPol 1710～2170MHz 65° 17.8dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17.5	17.7	17.8
Electrical downtilt (°)	0～10	0～10	0～10
Half-power beam width (°)	Hor:66 Vert:7.2	Hor:65 Vert:6.7	Hor:63 Vert:6.3
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...5º...10º 16...15...15	0º...5º...10º 16...15...15	0º...5º...10º 16...15...16
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1360×320×80
Packing size (mm)	1685×410×185
Antenna weight (kg) (with installation kit)	18.8
Packing weight (kg)	22.8
Wind loading area (m²)	0.44
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



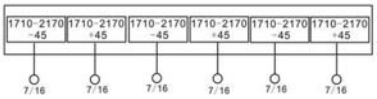


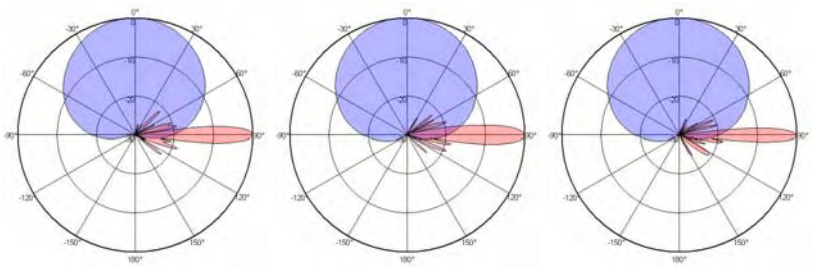
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XXXPol 1710～2170MHz 65° 17.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17	17.3	17.5
Electrical downtilt (°)	0～10	0～10	0～10
Half-power beam width (°)	Hor:66 Vert:7.2	Hor:65 Vert:6.7	Hor:63 Vert:6.2
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...5º...10º 16...15...15	0º...5º...10º 16...15...15	0º...5º...10º 16...15...15
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	6×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1360×515×100
Packing size (mm)	1755×630×225
Antenna weight (kg) (with installation kit)	26
Packing weight (kg)	30
Wind loading area (m²)	0.7
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



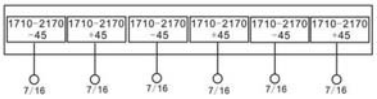


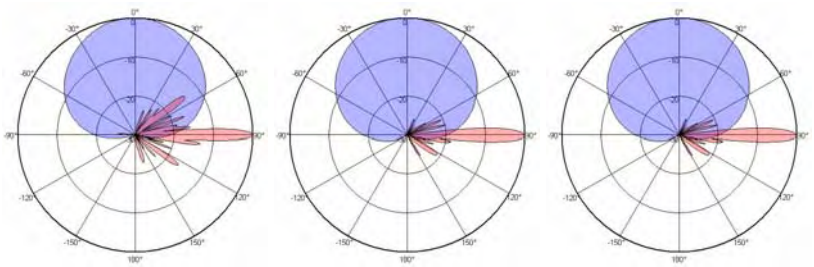
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

XXXPol 1710～2170MHz 65° 19.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	19	19.3	19.5
Electrical downtilt (°)	0～6	0～6	0～6
Half-power beam width (°)	Hor:66 Vert:5	Hor:65 Vert:4.7	Hor:64 Vert:4.3
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...3°...6° 16...15...14	0°...3°...6° 16...15...15	0°...3°...6° 16...15...15
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	6×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×480×85
Packing size (mm)	2180×540×160
Antenna weight (kg) (with installation kit)	33
Packing weight (kg)	38
Wind loading area (m²)	0.95
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115

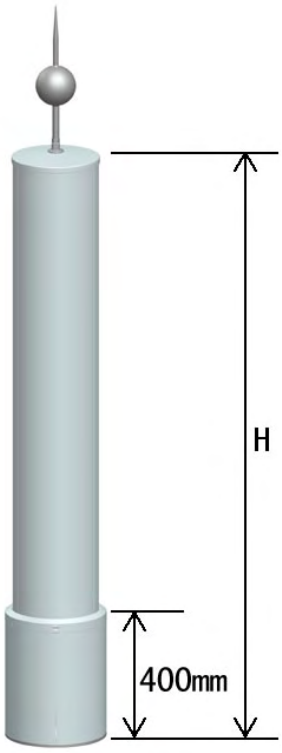




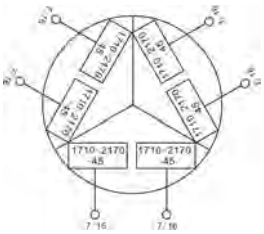
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

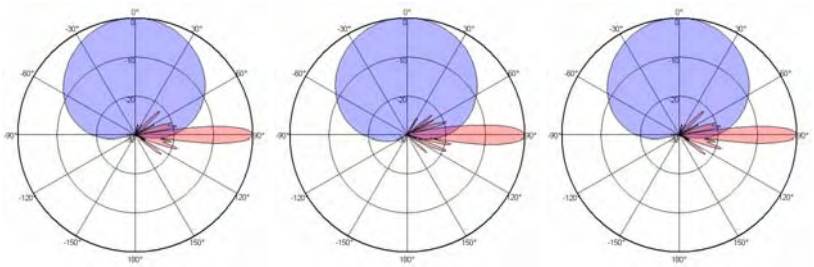
XPol 1710～2170MHz 65° 17.5dBi Tri-Sector Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17	17.3	17.5
Electrical downtilt (°)	0～10	0～10	0～10
Half-power beam width (°)	Hor:67 Vert:7.5	Hor:65 Vert:7	Hor:64 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 16...15...15	0°...5°...10° 16...15...15	0°...5°...10° 16...16...15
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		



Mechanical specifications	
Connector	3×2×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	1760×φ 250&300
Packing size (mm)	2090×410×410
Antenna weight (kg) (with installation kit)	32
Packing weight (kg)	40
Wind loading area (m²)	0.6
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Operating temperature (℃)	-40～60
Mounting interface	Flange Connection 6×M12 at graduated diameter of 230 ㎜, 0~360° continuously adjustable

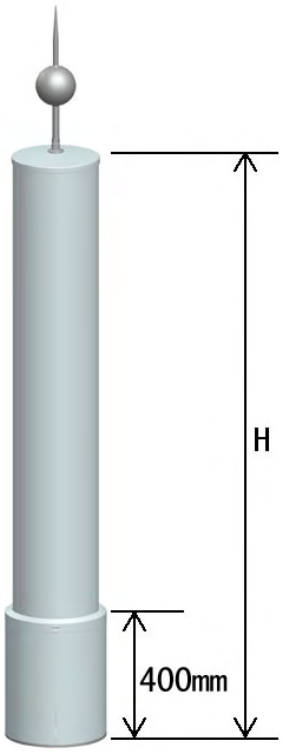




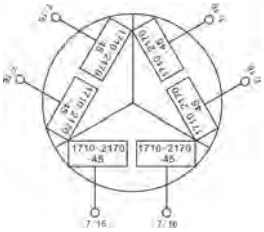
1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

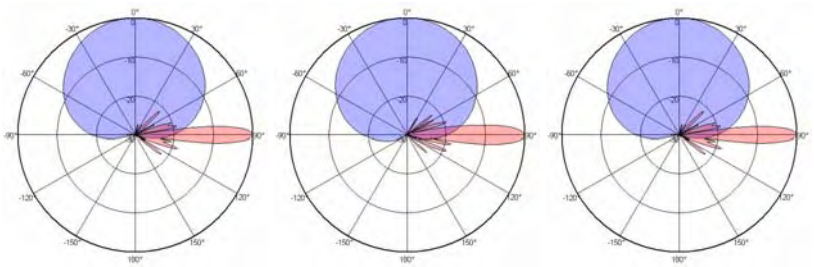
XPol 1710～2170MHz 65° 17.5dBi Tri-Sector Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17	17.3	17.5
Electrical downtilt (°)	0～10	0～10	0～10
Half-power beam width (°)	Hor:67 Vert:7.5	Hor:65 Vert:7	Hor:64 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...5º...10º 16...15...15	0º...5º...10º 16...15...15	0º...5º...10º 16...16...15
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	300W		
Lightning protection	DC Ground		



Mechanical specifications	
Connector	3×2×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	1760×φ 250&300
Packing size (mm)	2090×410×410
Antenna weight (kg) (with installation kit)	32
Packing weight (kg)	40
Wind loading area (m²)	0.6
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical panning (°)	±12°adjustable
Operating temperature (℃)	-40～60
Mounting interface	Flange Connection 6×M12 at graduated diameter of 230 ㎜, 0~360° continuously adjustable





1710～1880 MHz 1850～1990 MHz 1920～2170 MHz

Fixed Electrical Downtilt Antennas 1800/1900/2000

Dual Polarization ±45°

Model	Type					Height	Page
TDJ-182018D-15PT0	XPol	1710-2170	18dBi	15°	0° T	660	73
TDJ-182020D-15PT0	XPol	1710-2170	20dBi	15°	0° T	660	74
TDJ-182014D-45PT0	XPol	1710-2170	14dBi	45°	0° T	280	75
TDJ-182015D-33PT0	XPol	1710-2170	15dBi	33°	0° T	400	76
TDJ-182016D-33PT0	XPol	1710-2170	16dBi	33°	0° T	490	77
TDJ-182019D-45PT0	XPol	1710-2170	19dBi	45°	0° T	1050	78
TDJ-182020D-45PT0	XPol	1710-2170	20dBi	45°	0° T	1300	79
TDJ-182021D-33PTx	XPol	1710-2170	21dBi	33°	X(0,2,4)	1300	80
TDJ-182021D-45PT0	XPol	1710-2170	21dBi	45°	0° T	1940	81
TDJ-182022D-33PTx	XPol	1710-2170	22dBi	33°	X(0,2,4)	1940	82
TDJ-182012D-65FT0	XPol	1710-2170	12dBi	65°	0° T	280	83
TDJ-182015D-65FT0	XPol	1710-2170	15dBi	65°	0° T	550	84
TDJ-182016D-65FT0	XPol	1710-2170	16dBi	65°	0° T	800	85
TDJ-182017D-65FTx	XPol	1710-2170	17dBi	65°	X(0,3,6)	1050	86
TDJ-182018D-65PTx	XPol	1710-2170	18dBi	65°	X(0,6)	1300	87
TDJ-182019D-65FTx	XPol	1710-2170	19dBi	65°	X(0,3,6)	1550	88
TDJH-182018D-65PT2	XPol	1710-2170	18dBi	65°	2° T	1300	89
TDJH-182020D-65FT0	XPol	1710-2170	20dBi	65°	0° T	2080	90
TDJH-182021D-65FT0	XPol	1710-2170	21dBi	65°	0° T	2080	91
TDJ-182011D-90FT0	XPol	1710-2170	11dBi	90°	0° T	280	92
TDJ-182014D-90FT0	XPol	1710-2170	14dBi	90°	0° T	550	93
TDJ-182015D-90FT0	XPol	1710-2170	15dBi	90°	0° T	800	94
TDJ-182016D-90FTx	XPol	1710-2170	16dBi	90°	X(0,3,6)	1050	95
TDJ-182017D-90FTx	XPol	1710-2170	17dBi	90°	X(0,3,6)	1300	96
TDJ-182018D-90FT0	XPol	1710-2170	18dBi	90°	0° T	1925	97

Side by Side Antenna

TDQ-18/2015D-65PT0	XXPol	1710-1880 1920-2170	15dBi	65°	0° T	550	98
TDQ-18/2017D-65PT0	XXPol	1710-1880 1920-2170	17dBi	65°	0° T	1050	99
TDQ-18/2018D-65PT0	XXPol	1710-1880 1920-2170	18dBi	65°	0° T	1300	100
TDQ-182017D-90FT0	XXPol	1710-2170	17dBi	65°	0° T	1300	101

Tri-Sector Pipe Antenna

TTS-182018D-65PT0	XPol	1710-2170	18dBi	65°	0° T	1760	102

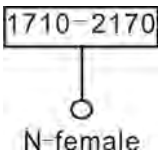
Single Polarization

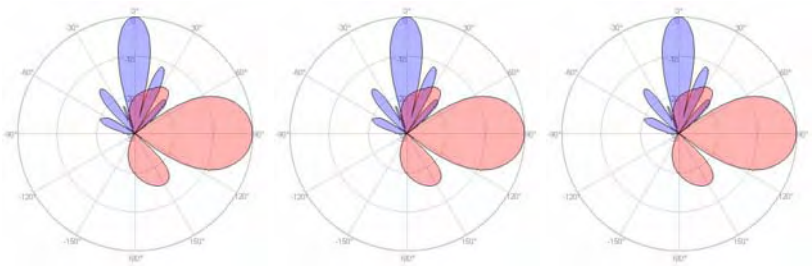
TDJ-182016A-33FT0	VPol	1710-2170	16dBi	33°	0° T	490	103
TDJ-182017A-45PT0	VPol	1710-2170	17dBi	45°	0° T	680	104
TDJ-182018A-33PTx	VPol	1710-2170	18dBi	33°	X(0,2,6)	660	105
TDJ-182019A-33PT0	VPol	1710-2170	19dBi	33°	0° T	800	106
TDJ-182020A-33PT0	VPol	1710-2170	20dBi	33°	0° T	1050	107
TDJ-182020A-45PT0	VPol	1710-2170	20dBi	45°	0° T	1300	108
TDJ-182021A-33PT0	VPol	1710-2170	21dBi	33°	0° T	1300	109
TDJ-182022A-33PT0	VPol	1710-2170	22dBi	33°	0° T	1940	110
TDJ-182012A-65FT0	VPol	1710-2170	12dBi	65°	0° T	280	111
TDJ-182015A-65FT0	VPol	1710-2170	15dBi	65°	0° T	550	112
TDJ-182016A-65FT0	VPol	1710-2170	16dBi	65°	0° T	800	113
TDJ-182017A-65FTx	VPol	1710-2170	17dBi	65°	X(0,2,6)	1050	114
TDJ-182018A-65FTx	VPol	1710-2170	18dBi	65°	X(0,2,6)	1300	115
TDJ-182019A-65FTx	VPol	1710-2170	19dBi	65°	X(0,2,6)	1550	116
TDJ-182020A-65FTx	VPol	1710-2170	20dBi	65°	X(0,2,6)	1940	117
TDJ-182011A-90FT0	VPol	1710-2170	11dBi	90°	0° T	280	118
TDJ-182014A-90FTx	VPol	1710-2170	14dBi	90°	X(0,2,6)	550	119
TDJ-182015A-90FT0	VPol	1710-2170	15dBi	90°	0° T	800	120
TDJ-182016A-90FT0	VPol	1710-2170	16dBi	90°	0° T	1050	121
TDJ-182017A-90FT0	VPol	1710-2170	17dBi	90°	0° T	1300	122
TDJ-182018A-90FT0	VPol	1710-2170	18dBi	90°	0° T	1930	123

XPol 1710～2170MHz 15° 18dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17.5	17.5	18
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:14 Vert:35	Hor:12 Vert:33	Hor:11 Vert:30
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×width×depth (mm)	660×280×85
Packing size (mm)	1105×370×180
Antenna weight (kg) (with installation kit)	12
Packing weight (kg)	14.5
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



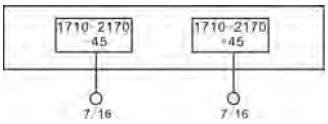


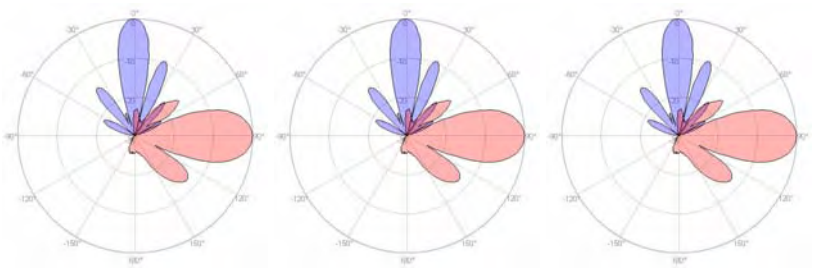
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 15° 20dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	19.5	19.5	20
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:14 Vert:24	Hor:12 Vert:22	Hor:11 Vert:20
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	660×385×138
Packing size (mm)	1010×495×250
Antenna weight (kg) (with installation kit)	16
Packing weight (kg)	18.5
Wind loading area (m²)	0.3
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



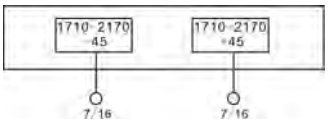


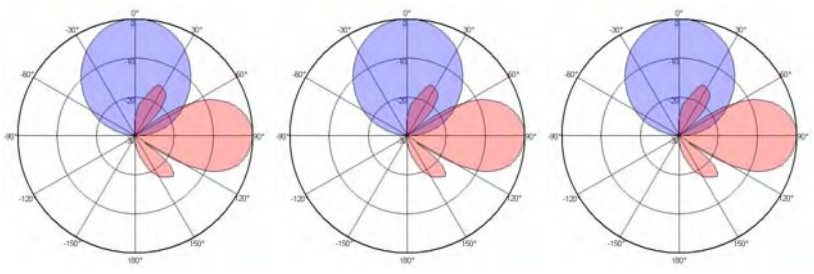
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 45° 14dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	13.5	13.5	14
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:48 Vert:20	Hor:45 Vert:19	Hor:42 Vert:18
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±30° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	280×280×85
Packing size (mm)	410×365×220
Antenna weight (kg) (with installation kit)	6.5
Packing weight (kg)	8.5
Wind loading area (m²)	0.08
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



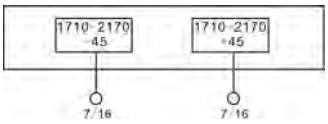


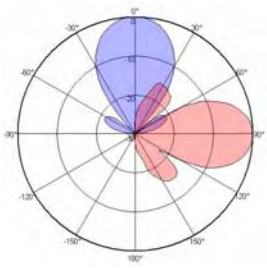
1710～1880MHz 1850～1990MHz 1920～2170MHz

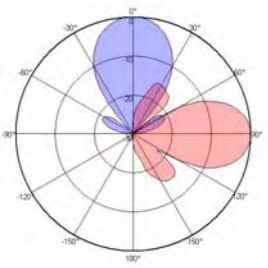
XPol 1710～2170MHz 33° 15dBi Fixed Tilt 0° Sector Panel Antenna

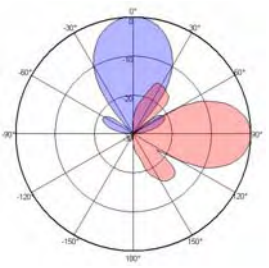
Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	14.5	14.5	15
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:35 Vert:25	Hor:33 Vert:23	Hor:30 Vert:20
Sidelobe suppression (dB) (First sidelobe above main beam)	≥12		
Front-to-back ratio (dB)	≥23		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±30° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	400×280×85
Packing size (mm)	425×370×180
Antenna weight (kg) (with installation kit)	6
Packing weight (kg)	8.5
Wind loading area (m²)	0.11
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115




1710～1880MHz

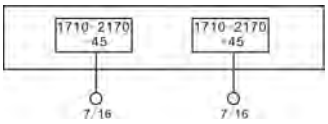

1850～1990MHz

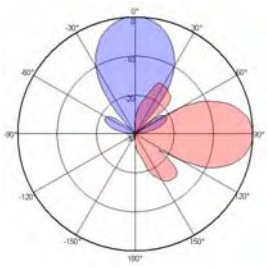

1920～2170MHz

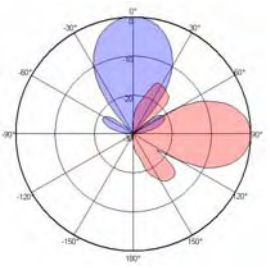
XPol 1710～2170MHz 33° 16dBi Fixed Tilt 0° Sector Panel Antenna

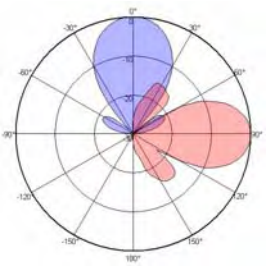
Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	15.5	15.5	16
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:35 Vert:20	Hor:33 Vert:19	Hor:30 Vert:18
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	Co-polar≥30,Cross-polar≥25 Typ.		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±30° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	490×280×85
Packing size (mm)	915×370×180
Antenna weight (kg) (with installation kit)	10
Packing weight (kg)	12.5
Wind loading area (m²)	0.15
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115

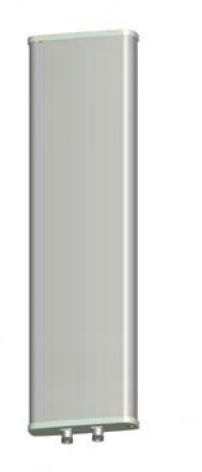



1710～1880MHz


1850～1990MHz

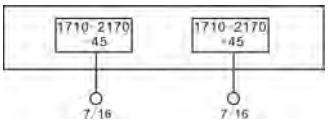

1920～2170MHz

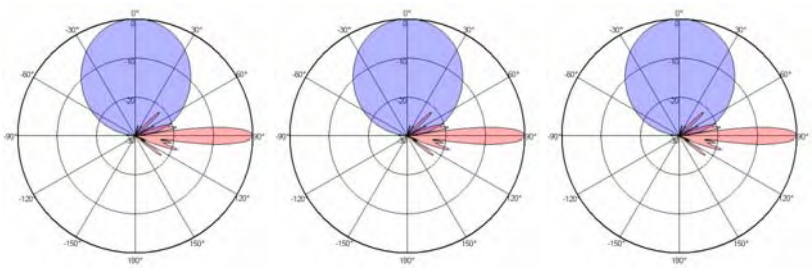
XPol 1710～2170MHz 45° 19dBi Fixed Tilt 0° Sector Panel Antenna



Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	18.5	18.5	19
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:48 Vert:8	Hor:45 Vert:7	Hor:42 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±30° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1050×280×85
Packing size (mm)	1180×365×220
Antenna weight (kg) (with installation kit)	12.5
Packing weight (kg)	16.5
Wind loading area (m²)	0.29
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115

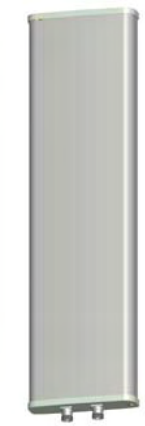




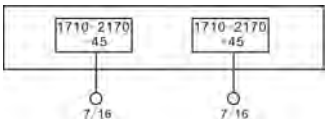
1710～1880MHz 1850～1990MHz 1920～2170MHz

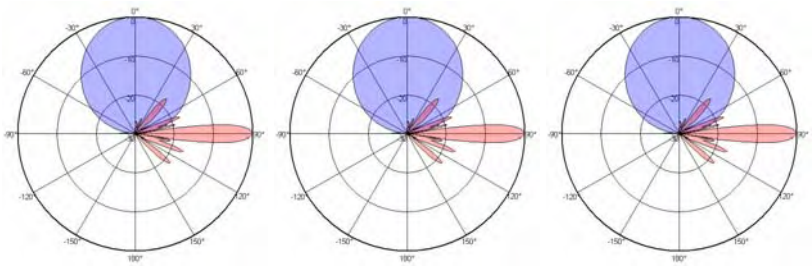
XPol 1710～2170MHz 45° 20dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	19.5	19.5	20
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:48 Vert:7	Hor:45 Vert:6	Hor:42 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±30° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		



Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×280×85
Packing size (mm)	1430×365×220
Antenna weight (kg) (with installation kit)	14.5
Packing weight (kg)	18.5
Wind loading area (m²)	0.36
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115



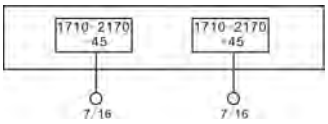


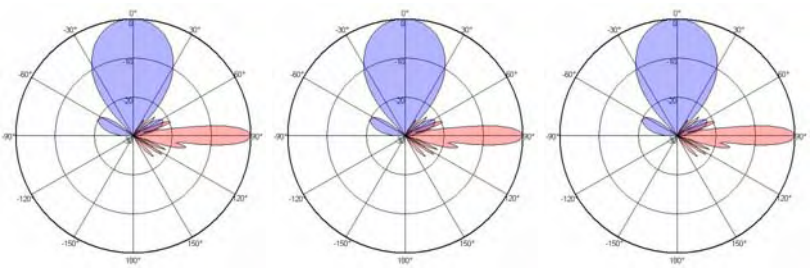
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 33° 21dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	20.5	20.5	21
Electrical downtilt (°)	X(0,2,4)		
Half-power beam width (°)	Hor:35 Vert:6	Hor:33 Vert:5.5	Hor:30 Vert:5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±30° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×280×85
Packing size (mm)	1655×370×180
Antenna weight (kg) (with installation kit)	18
Packing weight (kg)	20.5
Wind loading area (m²)	0.38
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～ φ115



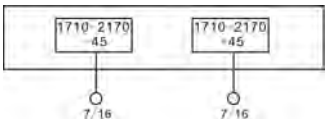


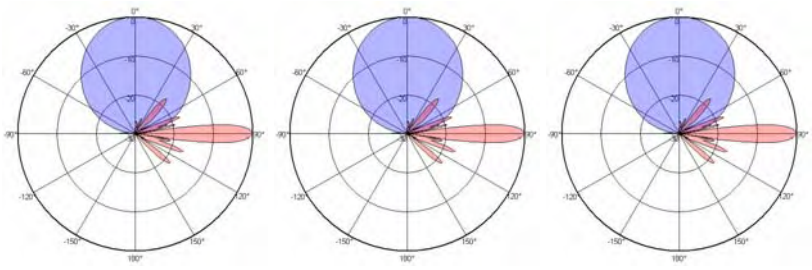
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 45° 21dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	20.5	20.5	21
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:48 Vert:5	Hor:45 Vert:4.5	Hor:42 Vert:4
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±30° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

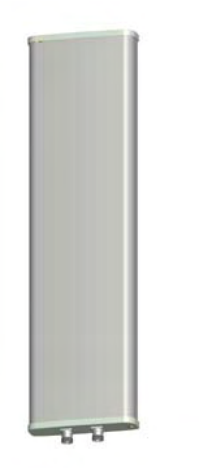
Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1940×280×85
Packing size (mm)	2360×365×220
Antenna weight (kg) (with installation kit)	16.5
Packing weight (kg)	20.5
Wind loading area (m²)	0.36
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





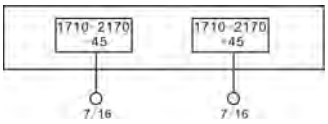
1710～1880MHz 1850～1990MHz 1920～2170MHz

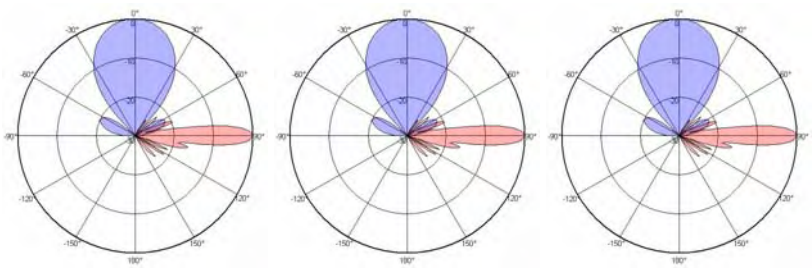
XPol 1710～2170MHz 33° 22dBi Fixed Tilt x Sector Panel Antenna



Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	21.5	21.5	22
Electrical downtilt (°)	X(0,2,4)		
Half-power beam width (°)	Hor:35 Vert:5	Hor:33 Vert:4.5	Hor:30 Vert:4
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±30° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1940×280×85
Packing size (mm)	2360×365×230
Antenna weight (kg) (with installation kit)	21.5
Packing weight (kg)	24.5
Wind loading area (m²)	0.55
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115



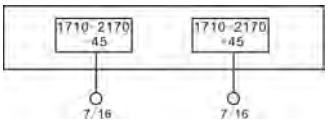


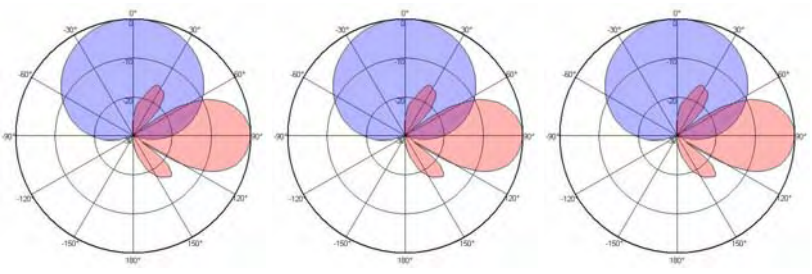
1710～1880MHz　1850～1990MHz　1920～2170MHz

XPol 1710～2170MHz 65° 12dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	11.5	11.5	12
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:68 Vert:32	Hor:65 Vert:30	Hor:63 Vert:28
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	280×165×65
Packing size (mm)	705×225×165
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	6.5
Wind loading area (m²)	0.05
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



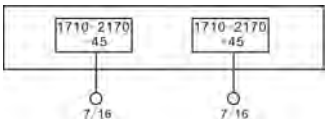


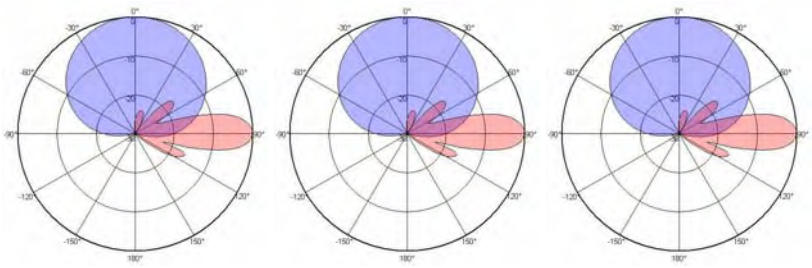
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	14.5	14.5	15
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:68 Vert:16	Hor:65 Vert:15	Hor:63 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	550×165×65
Packing size (mm)	975×225×165
Antenna weight (kg) (with installation kit)	7.5
Packing weight (kg)	9.5
Wind loading area (m²)	0.1
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



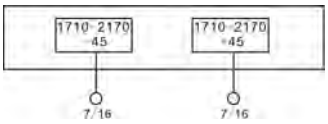


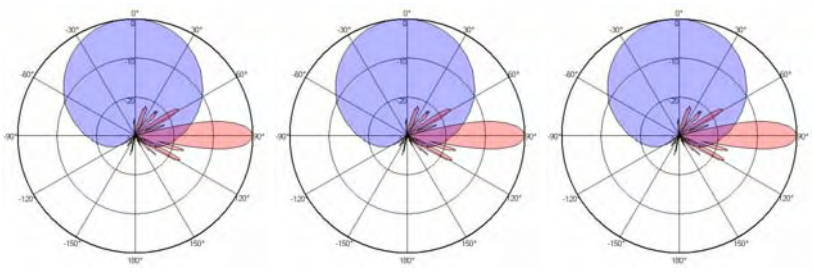
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 65° 16dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	15.5	15.5	16
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:68 Vert:11	Hor:65 Vert:10.5	Hor:63 Vert:9.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	800×165×65
Packing size (mm)	1225×225×165
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.15
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



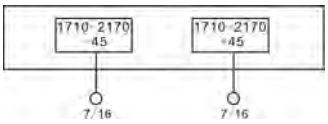


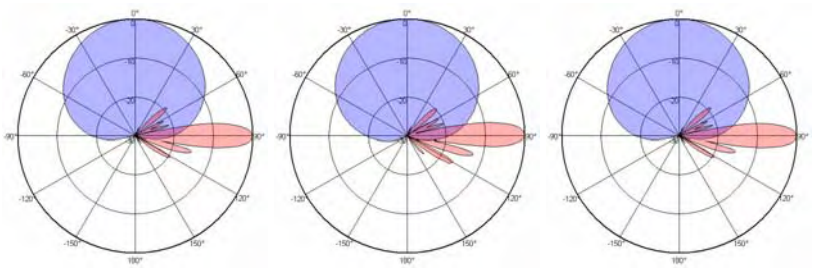
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 65° 17dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	16.5	16.5	17
Electrical downtilt (°)	X(0,3,6)		
Half-power beam width (°)	Hor:68 Vert:8	Hor:65 Vert:7.5	Hor:63 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1050×165×65
Packing size (mm)	1475×225×165
Antenna weight (kg) (with installation kit)	9.5
Packing weight (kg)	11.5
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～ φ115



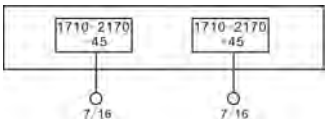


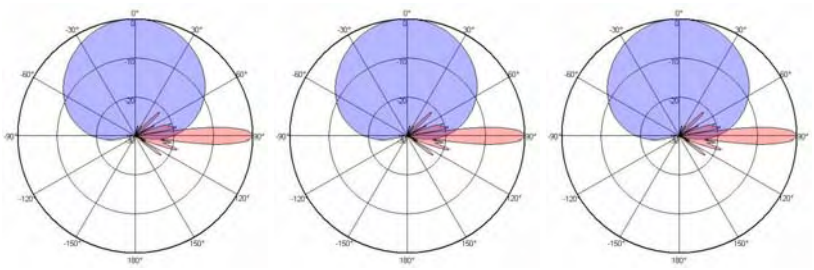
1710～1880MHz　1850～1990MHz　1920～2170MHz

XPol 1710～2170MHz 65° 18dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17.5	17.5	18
Electrical downtilt (°)	X(0,6)		
Half-power beam width (°)	Hor:68 Vert:7	Hor:65 Vert:6	Hor:63 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×165×65
Packing size (mm)	1725×225×165
Antenna weight (kg) (with installation kit)	11.5
Packing weight (kg)	13.5
Wind loading area (m²)	0.27
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～ φ115



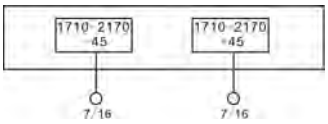


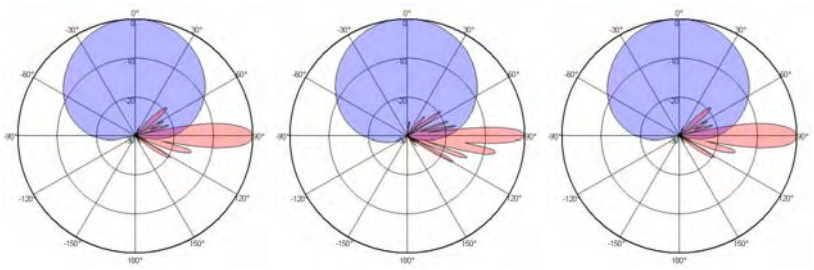
1710～1880MHz　1850～1990MHz　1920～2170MHz

XPol 1710～2170MHz 65° 19dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	18.5	18.5	19
Electrical downtilt (°)	X(0,3,6)		
Half-power beam width (°)	Hor:68 Vert:6	Hor:65 Vert:5.5	Hor:63 Vert:5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1550×165×65
Packing size (mm)	1975×225×165
Antenna weight (kg) (with installation kit)	12.5
Packing weight (kg)	14.5
Wind loading area (m²)	0.27
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



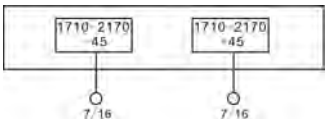


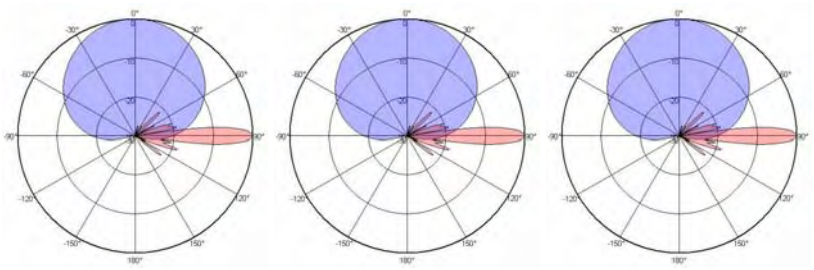
1710～1880MHz　1850～1990MHz　1920～2170MHz

XPol 1710～2170MHz 65° 18dBi Fixed Tilt 2° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17.5	17.5	18
Electrical downtilt (°)	2	2	2
Half-power beam width (°)	Hor:68 Vert:7	Hor:65 Vert:6	Hor:63 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	Co-polar≥30,Cross-polar≥25 Typ.		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×165×65
Packing size (mm)	1725×225×165
Antenna weight (kg) (with installation kit)	11.5
Packing weight (kg)	13.5
Wind loading area (m²)	0.27
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



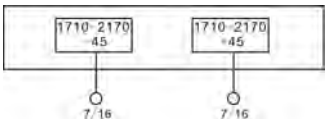


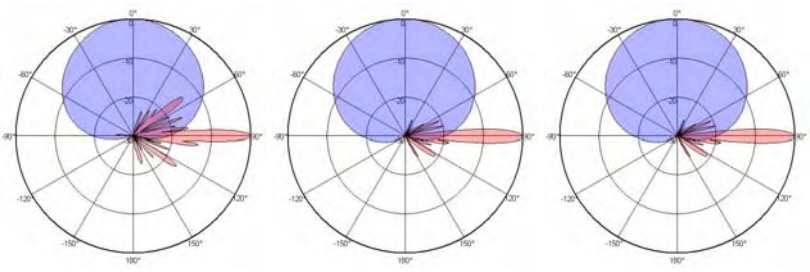
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 65° 20dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	19.5	19.5	20
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:68 Vert:5	Hor:65 Vert:4.5	Hor:63 Vert:4
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	Co-polar≥30,Cross-polar≥25 Typ.		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2080×165×80
Packing size (mm)	2505×245×165
Antenna weight (kg) (with installation kit)	14.5
Packing weight (kg)	16.5
Wind loading area (m²)	0.33
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



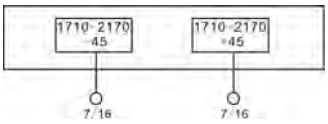


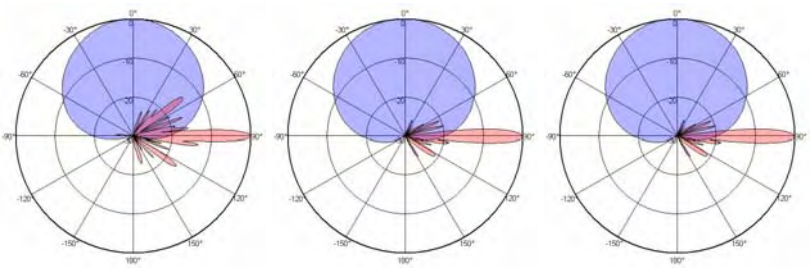
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 65° 21dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	20.1	20.3	20.5
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:66 Vert:4.3	Hor:64 Vert:4	Hor:62 Vert:3.8
Sidelobe suppression (dB) (First sidelobe above main beam)	≥18		
Front-to-back ratio (dB)	Co-polar≥30,Cross-polar≥25 Typ.		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥20(±60° ≥10) Typ.		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2080×165×80
Packing size (mm)	2585×245×165
Antenna weight (kg) (with installation kit)	13
Packing weight (kg)	15.7
Wind loading area (m²)	0.34
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



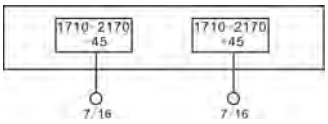


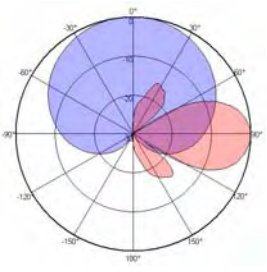
1710～1880MHz 1850～1990MHz 1920～2170MHz

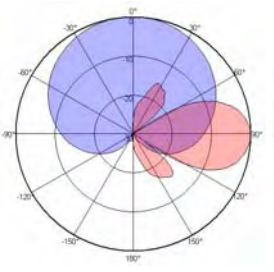
XPol 1710～2170MHz 90° 11dBi Fixed Tilt 0° Sector Panel Antenna

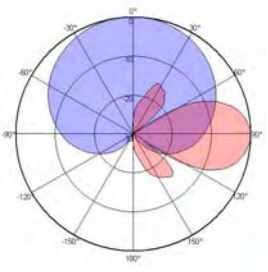
Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	10.5	10.5	11
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:32	Hor:88 Vert:30	Hor:85 Vert:28
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	280×165×65
Packing size (mm)	705×225×165
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	6.5
Wind loading area (m²)	0.05
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115




1710～1880MHz

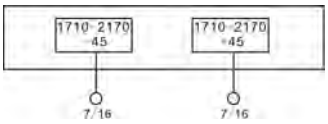

1850～1990MHz

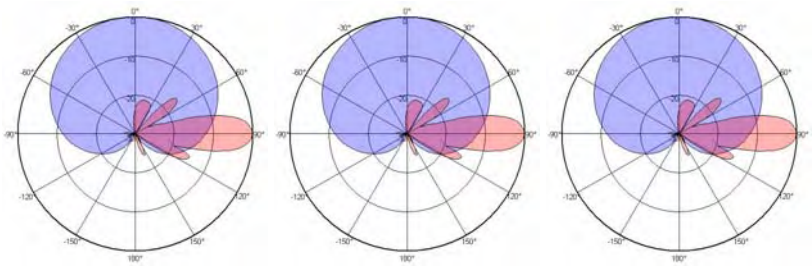

1920～2170MHz

XPol 1710～2170MHz 90° 14dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	13.5	13.5	14
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:16	Hor:88 Vert:15	Hor:85 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	550×165×65
Packing size (mm)	975×225×165
Antenna weight (kg) (with installation kit)	7.5
Packing weight (kg)	9.5
Wind loading area (m²)	0.1
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



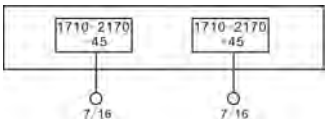


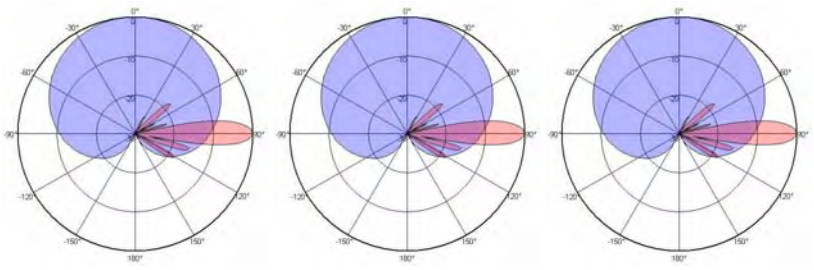
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 90° 15dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	14.5	14.5	15
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:10.5	Hor:88 Vert:9.5	Hor:85 Vert:9
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	800×165×65
Packing size (mm)	1225×225×165
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.15
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



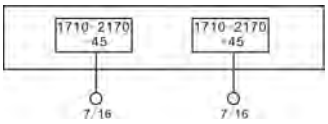


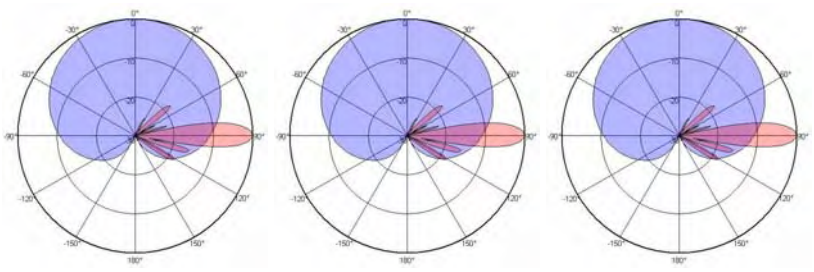
1710～1880MHz 1850～1990MHz 1920～2170MHz

XPol 1710～2170MHz 90° 16dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	15.5	15.5	16
Electrical downtilt (°)	X(0,3,6)		
Half-power beam width (°)	Hor:90 Vert:8	Hor:88 Vert:7.5	Hor:85 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1050×165×65
Packing size (mm)	1475×225×165
Antenna weight (kg) (with installation kit)	9.5
Packing weight (kg)	11.5
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



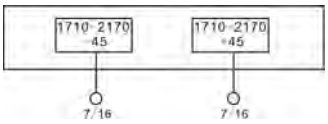


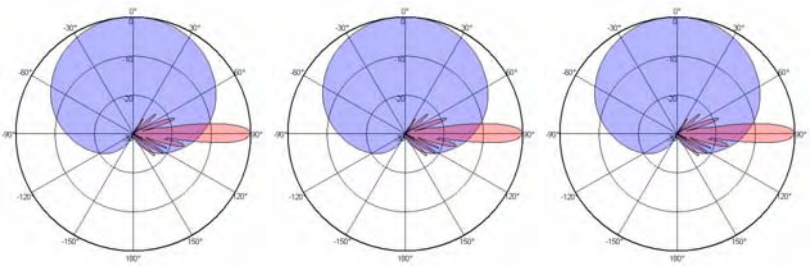
1710～1880MHz　1850～1990MHz　1920～2170MHz

XPol 1710～2170MHz 90° 17dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	16.5	16.5	17
Electrical downtilt (°)	X(0,3,6)		
Half-power beam width (°)	Hor:90 Vert:7	Hor:88 Vert:6	Hor:85 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×165×65
Packing size (mm)	1725×225×165
Antenna weight (kg) (with installation kit)	11.5
Packing weight (kg)	13.5
Wind loading area (m²)	0.27
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



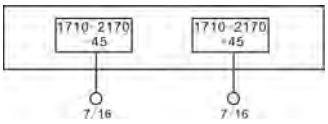


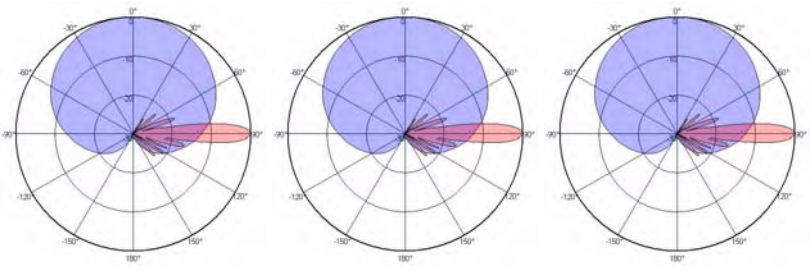
1710～1880MHz　1850～1990MHz　1920～2170MHz

XPol 1710～2170MHz 90° 18dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17.5	17.5	18
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:6.5	Hor:88 Vert:6	Hor:85 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1925×165×65
Packing size (mm)	2350×225×165
Antenna weight (kg) (with installation kit)	14.5
Packing weight (kg)	16.5
Wind loading area (m²)	0.3
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



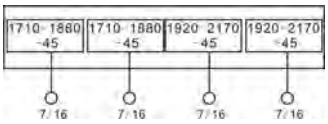


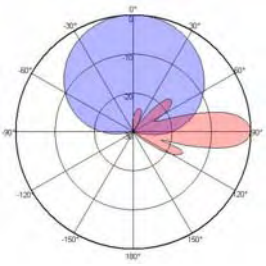
1710～1880MHz 1850～1990MHz 1920～2170MHz

XXPol 1710～1880/1920～2170MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

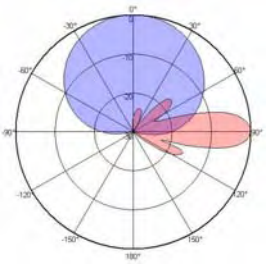
Electrical specifications		
Frequency range (MHz)	1710～1880	1920～2170
Polarization	±45°	
Gain (dBi)	15	15.2
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:68 Vert:13	Hor:63 Vert:11.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15	
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	300	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	550×320×80
Packing size (mm)	975×410×160
Antenna weight (kg) (with installation kit)	9
Packing weight (kg)	11
Wind loading area (m²)	0.18
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





1710～1880MHz

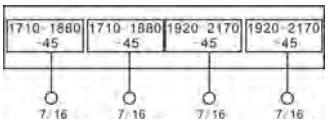


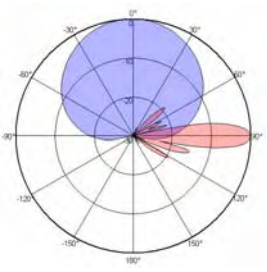
1920～2170MHz

XXPol 1710～1880/1920～2170MHz 65° 17dBi Fixed Tilt 0° Sector Panel Antenna

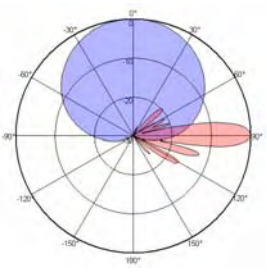
Electrical specifications		
Frequency range (MHz)	1710～1880	1920～2170
Polarization	±45°	
Gain (dBi)	16.5	17
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:68 Vert:8	Hor:63 Vert:7.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15	
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	300	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1050×320×80
Packing size (mm)	1475×410×160
Antenna weight (kg) (with installation kit)	13
Packing weight (kg)	16.5
Wind loading area (m²)	0.35
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





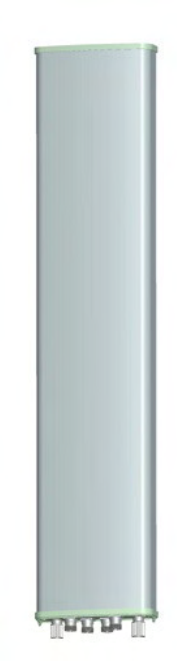
1710～1880MHz



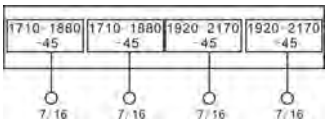
1920～2170MHz

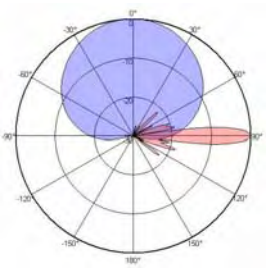
XXPol 1710～1880/1920～2170MHz 65° 18dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications		
Frequency range (MHz)	1710～1880	1920～2170
Polarization	±45°	
Gain (dBi)	17.5	18
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:68 Vert:7	Hor:63 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15	
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.4	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	300	
Lightning protection	DC Ground	

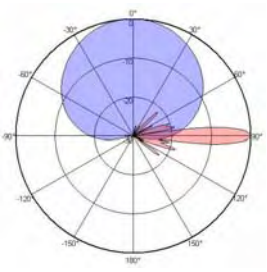


Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×320×80
Packing size (mm)	1725×410×160
Antenna weight (kg) (with installation kit)	15.5
Packing weight (kg)	19.5
Wind loading area (m²)	0.42
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





1710～1880MHz

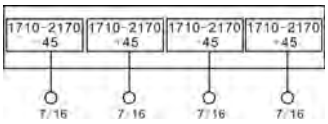


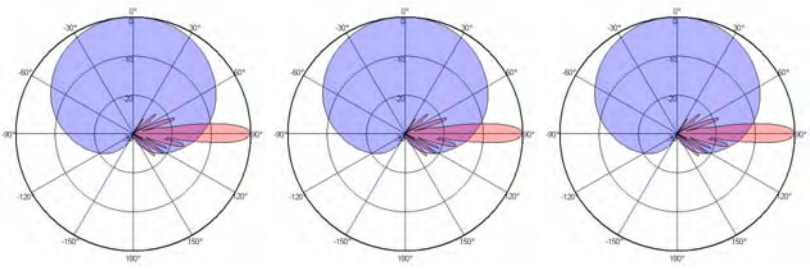
1920～2170MHz

XXPol 1710～2170MHz 90° 17dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	16.5	16.5	17
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:7	Hor:88 Vert:6	Hor:85 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	2×2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×355×65
Packing size (mm)	1725×420×190
Antenna weight (kg) (with installation kit)	18.5
Packing weight (kg)	22.5
Wind loading area (m²)	0.56
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115

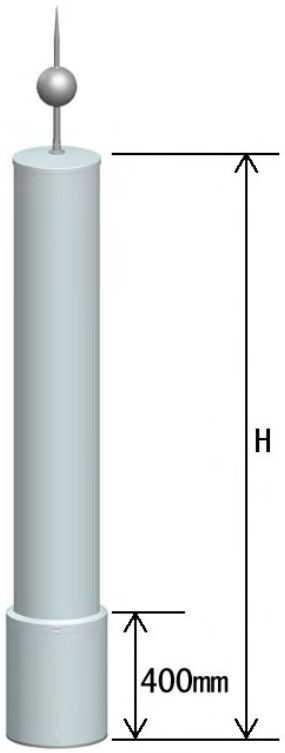




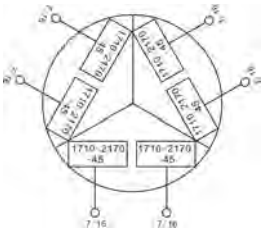
1710～1880MHz 1850～1990MHz 1920～2170MHz

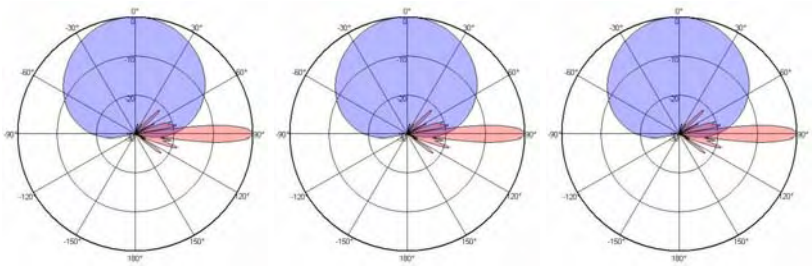
XPol 1710～2170MHz 65° 18dBi Fixed Tilt 0° Tri-Sector Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	±45°		
Gain (dBi)	17.5	17.5	18
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:68 Vert:7	Hor:65 Vert:6	Hor:63 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		



Mechanical specifications	
Connector	6×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	1760×φ300
Packing size (mm)	2090×410×410
Antenna weight (kg) (with installation kit)	28
Packing weight (kg)	36
Wind loading area (m²)	0.6
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ115～φ122



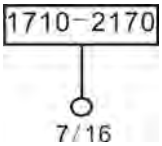


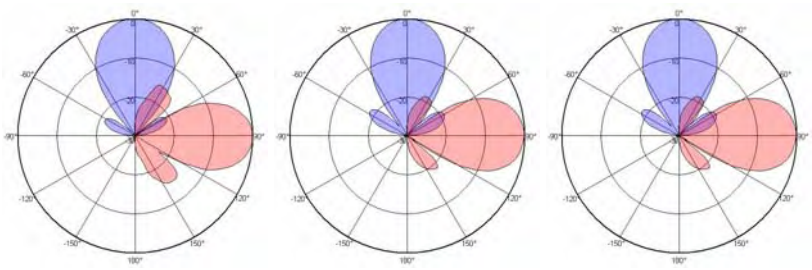
1710～1880MHz　1850～1990MHz　1920～2170MHz

VPol 1710～2170MHz 33° 16dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	15.5	15.5	16
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:35 Vert:20	Hor:33 Vert:19	Hor:30 Vert:18
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	490×280×85
Packing size (mm)	915×370×180
Antenna weight (kg) (with installation kit)	10
Packing weight (kg)	12.5
Wind loading area (m²)	0.15
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



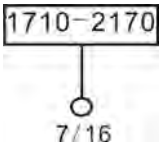


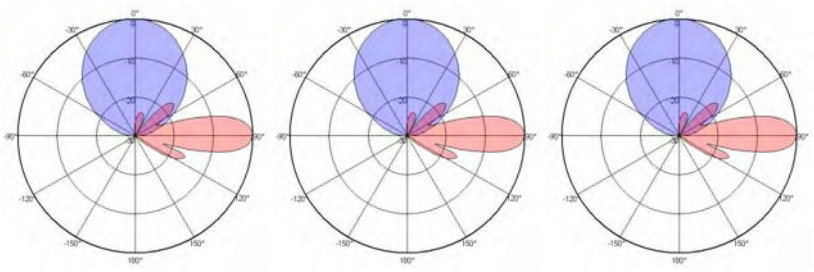
1710～1880MHz 1850～1990MHz 1920～2170MHz

Vpol 1710～2170MHz 45° 17 dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	16.5	16.5	17
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:48 Vert:13	Hor:45 Vert:12	Hor:43 Vert:11.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	680×280×85
Packing size (mm)	1015×370×180 分体/830×365×230
Antenna weight (kg) (with installation kit)	9.5
Packing weight (kg)	11.5
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



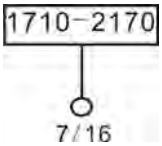


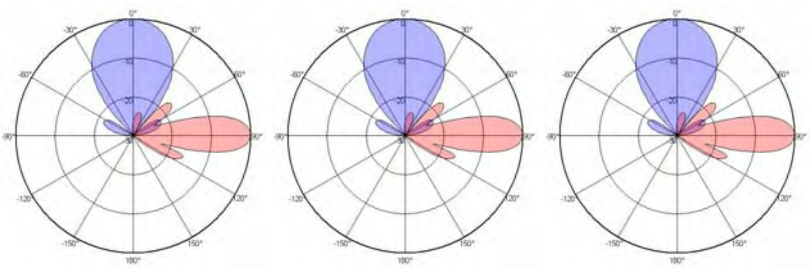
1710～1880MHz 1850～1990MHz 1920～2170MHz

VPol 1710～2170MHz 33° 18dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	17.5	17.5	18
Electrical downtilt (°)	X(0,2,6)		
Half-power beam width (°)	Hor:35 Vert:13	Hor:33 Vert:12	Hor:30 Vert:11.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	660×280×85
Packing size (mm)	1105×370×225
Antenna weight (kg) (with installation kit)	12
Packing weight (kg)	14.5
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



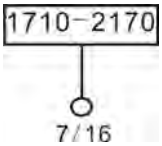


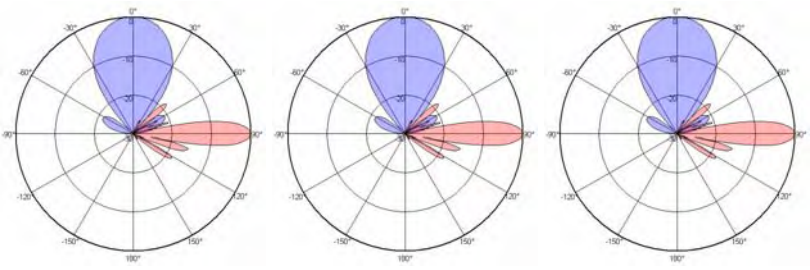
1710～1880MHz　1850～1990MHz　1920～2170MHz

VPol 1710～2170MHz 33° 19dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	18.5	18.5	19
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:35 Vert:9.5	Hor:33 Vert:9	Hor:30 Vert:8.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	800×280×85
Packing size (mm)	1155×370×225
Antenna weight (kg) (with installation kit)	14
Packing weight (kg)	16.5
Wind loading area (m²)	0.22
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115

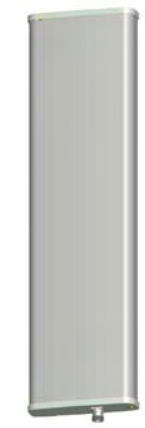




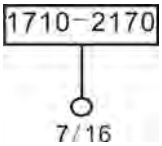
1710～1880MHz 1850～1990MHz 1920～2170MHz

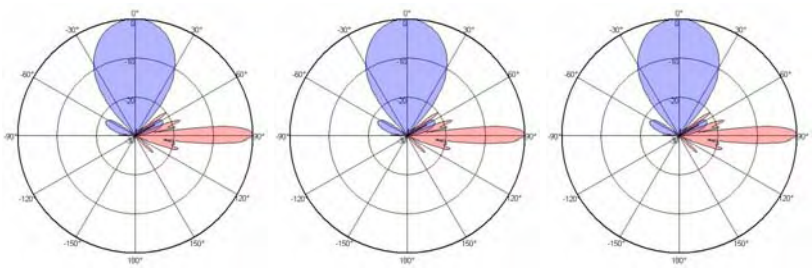
VPol 1710～2170MHz 33° 20dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	19.5	19.5	20
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:35 Vert:8	Hor:33 Vert:7	Hor:30 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		



Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1050×280×85
Packing size (mm)	1405×370×225
Antenna weight (kg) (with installation kit)	15
Packing weight (kg)	17.5
Wind loading area (m²)	0.3
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115

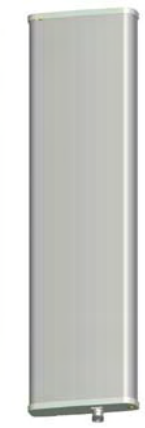




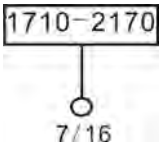
1710～1880MHz 1850～1990MHz 1920～2170MHz

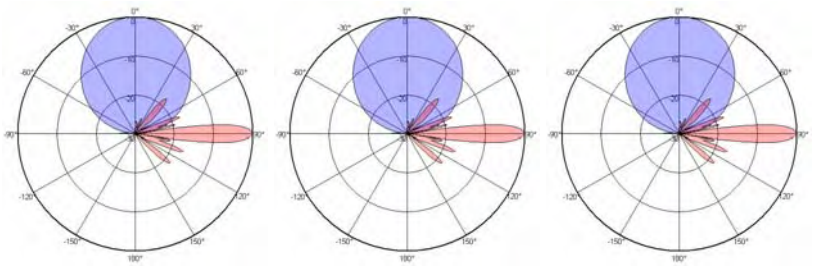
VPol 1710～2170MHz 45° 20dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	19.5	19.5	20
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:48 Vert:7	Hor:45 Vert:6	Hor:42 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Isolation (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		



Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×280×85
Packing size (mm)	1430×365×220
Antenna weight (kg) (with installation kit)	13.5
Packing weight (kg)	17.5
Wind loading area (m²)	0.35
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115

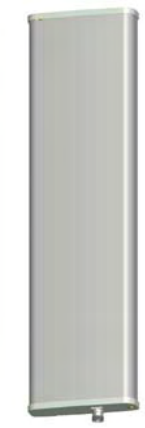




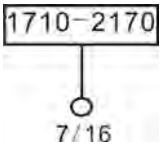
1710～1880MHz 1850～1990MHz 1920～2170MHz

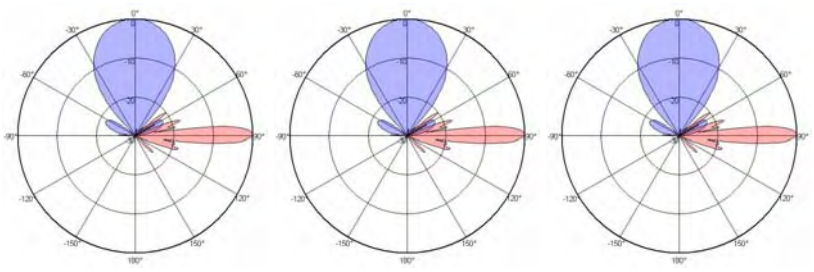
VPol 1710～2170MHz 33° 21dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	20.5	20.5	21
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:35 Vert:7	Hor:33 Vert:6	Hor:30 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		



Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×280×85
Packing size (mm)	1855×370×225
Antenna weight (kg) (with installation kit)	18
Packing weight (kg)	20.5
Wind loading area (m²)	0.38
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115

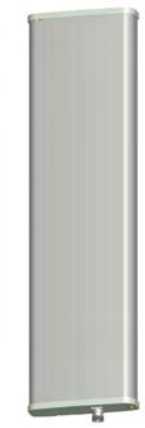




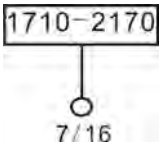
1710～1880MHz 1850～1990MHz 1920～2170MHz

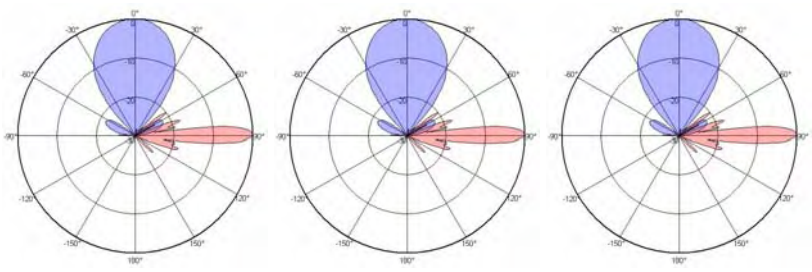
VPol 1710～2170MHz 33° 22dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	21.5	21.5	22
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:35 Vert:5	Hor:33 Vert:4.5	Hor:30 Vert:4
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥30		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		



Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1940×280×85
Packing size (mm)	2360×365×220
Antenna weight (kg) (with installation kit)	21.5
Packing weight (kg)	24.5
Wind loading area (m²)	0.55
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115



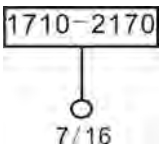


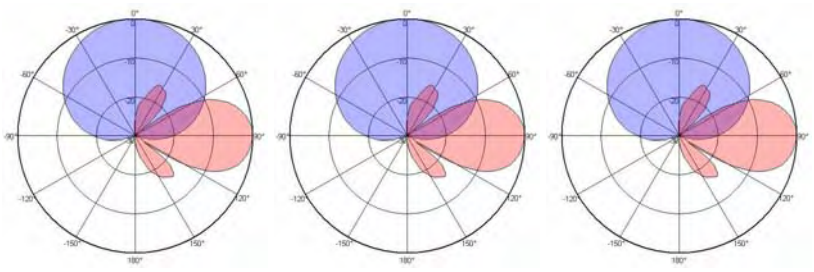
1710～1880MHz 1850～1990MHz 1920～2170MHz

VPol 1710～2170MHz 65° 12dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	11.5	11.5	12
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:68 Vert:32	Hor:65 Vert:30	Hor:63 Vert:28
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	280×165×65
Packing size (mm)	705×225×165
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	6.5
Wind loading area (m²)	0.05
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



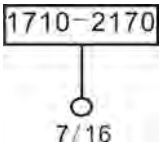


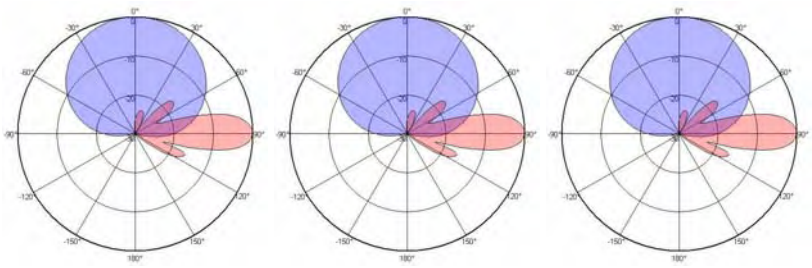
1710～1880MHz 1850～1990MHz 1920～2170MHz

VPol 1710～2170MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	14.5	14.5	15
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:68 Vert:16	Hor:65 Vert:15	Hor:63 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	550×165×65
Packing size (mm)	975×225×165
Antenna weight (kg) (with installation kit)	7.5
Packing weight (kg)	9.5
Wind loading area (m²)	0.1
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



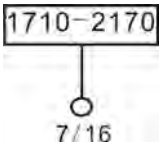


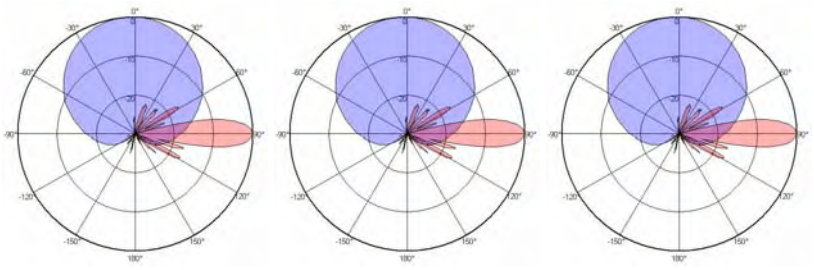
1710～1880MHz 1850～1990MHz 1920～2170MHz

VPol 1710～2170MHz 65° 16dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	15.5	15.5	16
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:68 Vert:9.5	Hor:65 Vert:9	Hor:63 Vert:8.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	800×165×65
Packing size (mm)	1225×225×165
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.15
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



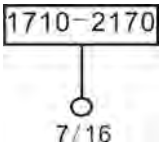


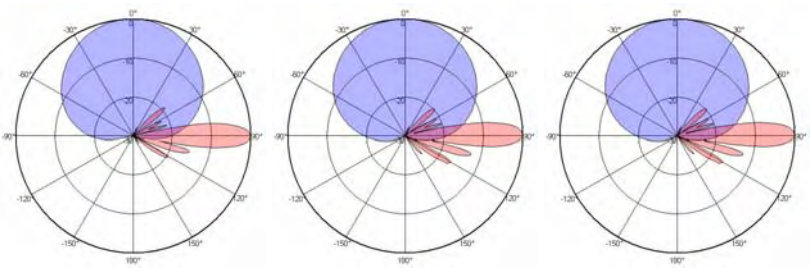
1710～1880MHz 1850～1990MHz 1920～2170MHz

VPol 1710～2170MHz 65° 17dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	16.5	16.5	17
Electrical downtilt (°)	X(0,2,6)		
Half-power beam width (°)	Hor:68 Vert:8	Hor:65 Vert:7.5	Hor:63 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1050×165×65
Packing size (mm)	1475×225×165
Antenna weight (kg) (with installation kit)	9.5
Packing weight (kg)	11.5
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



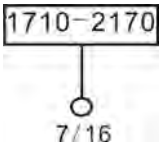


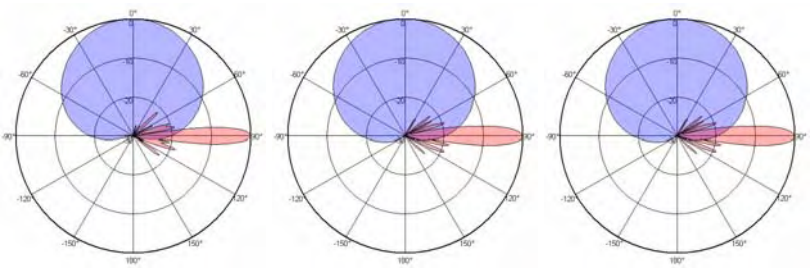
1710～1880MHz　1850～1990MHz　1920～2170MHz

VPol 1710～2170MHz 65° 18dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	17.5	17.5	18
Electrical downtilt (°)	X(0,2,6)		
Half-power beam width (°)	Hor:68 Vert:7	Hor:65 Vert:6	Hor:63 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×165×65
Packing size (mm)	1725×225×165
Antenna weight (kg) (with installation kit)	11.5
Packing weight (kg)	13.5
Wind loading area (m²)	0.27
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



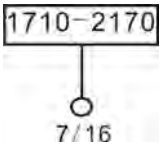


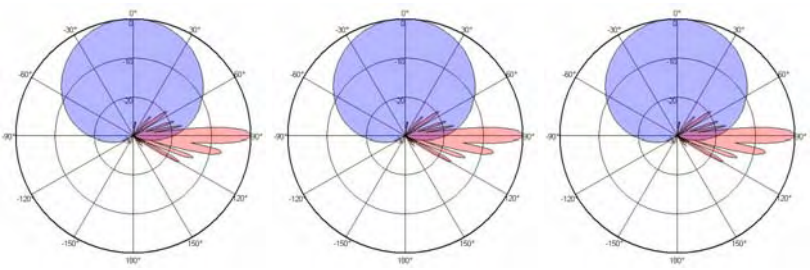
1710～1880MHz　1850～1990MHz　1920～2170MHz

VPol 1710～2170MHz 65° 19dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	18.5	18.5	19
Electrical downtilt (°)	X(0,2,6)		
Half-power beam width (°)	Hor:68 Vert:5	Hor:65 Vert:4.5	Hor:63 Vert:4
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1550×165×65
Packing size (mm)	1975×225×165
Antenna weight (kg) (with installation kit)	12.5
Packing weight (kg)	14.5
Wind loading area (m²)	0.27
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



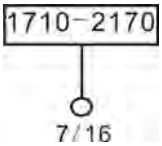


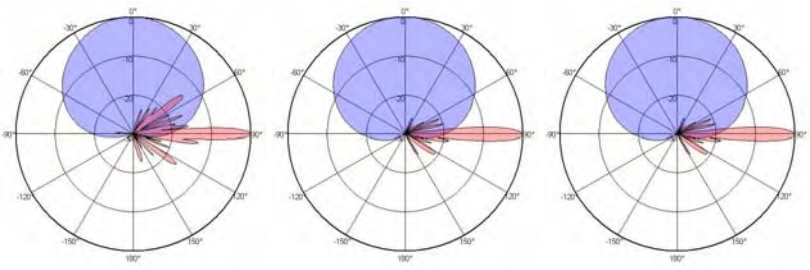
1710～1880MHz　1850～1990MHz　1920～2170MHz

VPol 1710～2170MHz 65° 20dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	19.5	19.5	20
Electrical downtilt (°)	X(0,2,6)		
Half-power beam width (°)	Hor:68 Vert:5	Hor:65 Vert:4.5	Hor:63 Vert:4
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥25		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1940×165×65
Packing size (mm)	2360×225×165
Antenna weight (kg) (with installation kit)	14.5
Packing weight (kg)	16.5
Wind loading area (m²)	0.33
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



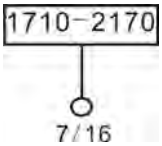


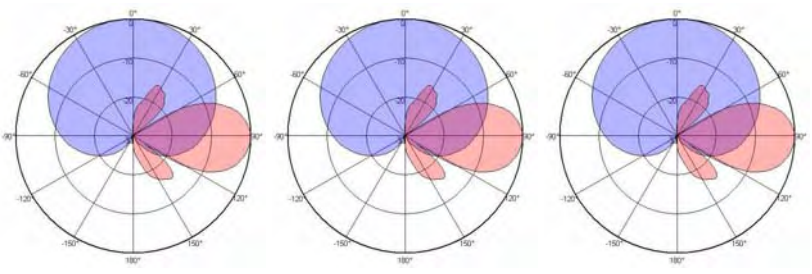
1710～1880MHz　1850～1990MHz　1920～2170MHz

VPol 1710～2170MHz 90° 11dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	10.5	10.5	11
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:32	Hor:88 Vert:30	Hor:85 Vert:28
Front-to-back ratio (dB)	≥23		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	280×165×65
Packing size (mm)	705×225×165
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	6.5
Wind loading area (m²)	0.05
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	ϕ50～ ϕ115



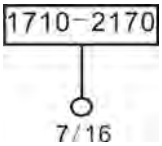


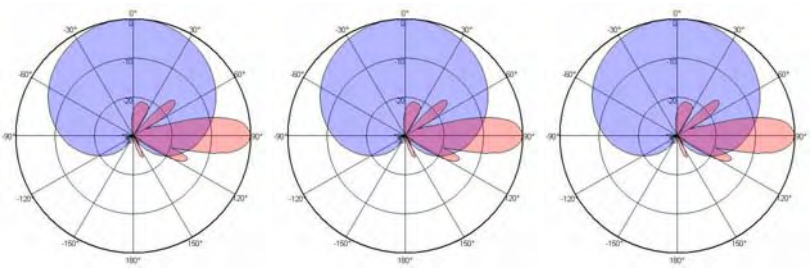
1710～1880MHz 1850～1990MHz 1920～2170MHz

VPol 1710～2170MHz 90° 14dBi Fixed Tilt x Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	13.5	13.5	14
Electrical downtilt (°)	X(0,2,6)		
Half-power beam width (°)	Hor:90 Vert:16	Hor:88 Vert:15	Hor:85 Vert:14
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥23		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	550×165×65
Packing size (mm)	975×225×165
Antenna weight (kg) (with installation kit)	7.5
Packing weight (kg)	9.5
Wind loading area (m²)	0.1
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



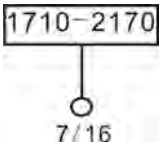


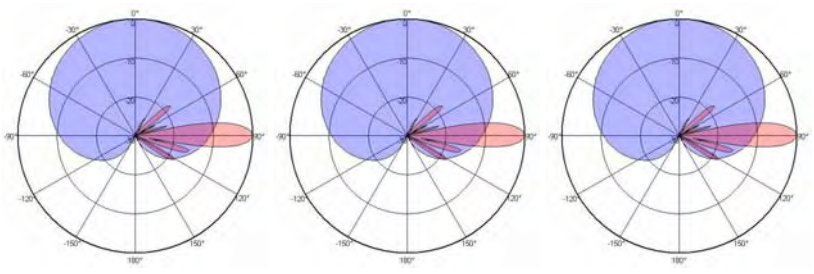
1710～1880MHz　1850～1990MHz　1920～2170MHz

VPol 1710～2170MHz 90° 15dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	14.5	14.5	15
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:9.5	Hor:88 Vert:9	Hor:85 Vert:8.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥23		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	800×165×65
Packing size (mm)	1225×225×165
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.15
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



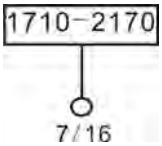


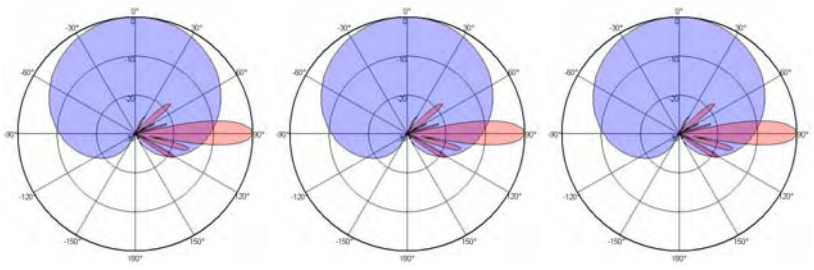
1710～1880MHz 1850～1990MHz 1920～2170MHz

VPol 1710～2170MHz 90° 16dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	15.5	15.5	16
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:8.5	Hor:88 Vert:7.5	Hor:85 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥23		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1050×165×65
Packing size (mm)	1475×225×165
Antenna weight (kg) (with installation kit)	9.5
Packing weight (kg)	11.5
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115



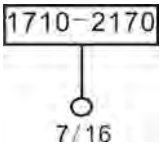


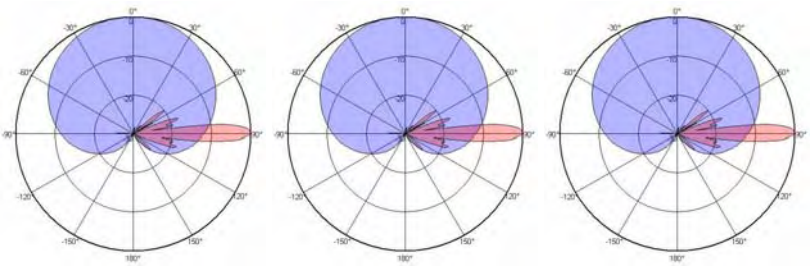
1710～1880MHz 1850～1990MHz 1920～2170MHz

VPol 1710～2170MHz 90° 17dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	16.5	16.5	17
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:7	Hor:88 Vert:6	Hor:85 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥23		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1300×165×65
Packing size (mm)	1725×225×165
Antenna weight (kg) (with installation kit)	11.5
Packing weight (kg)	13.5
Wind loading area (m²)	0.25
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115



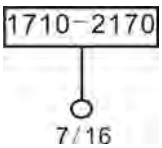


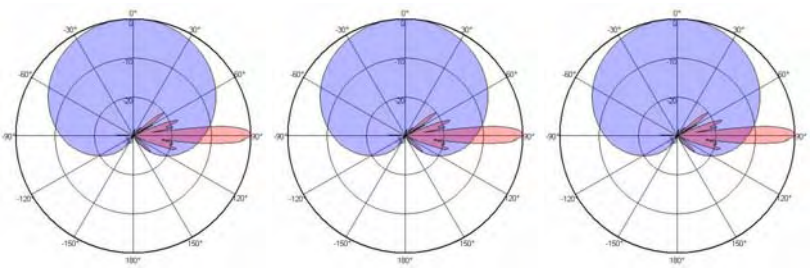
1710～1880MHz 1850～1990MHz 1920～2170MHz

VPol 1710～2170MHz 90° 18dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications			
Frequency range (MHz)	1710～1880	1850～1990	1920～2170
Polarization	Vertical		
Gain (dBi)	17.5	17.5	18
Electrical downtilt (°)	0	0	0
Half-power beam width (°)	Hor:90 Vert:5	Hor:88 Vert:4.5	Hor:85 Vert:4
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		
Front-to-back ratio (dB)	≥23		
Impedance (Ω)	50		
VSWR	≤1.4		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum input power (W)	300		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1930×165×65
Packing size (mm)	2355×225×165
Antenna weight (kg) (with installation kit)	14.5
Packing weight (kg)	16.5
Wind loading area (m²)	0.33
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





1710～1880MHz 1850～1990MHz 1920～2170MHz

Variable Electrical Downtilt Antennas 800/900-1800/1900/2000

Model	Type						Height	Page
TDJ-9015/1817DE-65P	XXPol	870-960 1710-1880	15dBi 17dBi	65°	0-15° T 0-10° T		1600	126
TDJ-9015/1817DE-65P-C	XXPol	870-960 1710-1880	14.5dBi 16.5dBi	65°	0-15° T 0-10° T	C	1600	127
TDJ-9017/1818DE-65P	XXPol	870-960 1710-1880	17dBi 17.5dBi	65°	0-8° T 0-8° T		2580	128
TDJ-809015/182017DE-65P	XXPol	806-960 1710-2170	15dBi 17dBi	65°	0-15° T 0-8° T		1420	129
TDJ-809015/182017DE-65P-C	XXPol	806-960 1710-2170	15dBi 16.5dBi	65°	0-15° T 0-8° T	C	1420	130
TDJ-809016/182018DE-65P	XXPol	806-960 1710-2170	16dBi 18dBi	65°	0-8° T 0-8° T		1980	131
TDJ-809016/182018DE-65P-C	XXPol	806-960 1710-2170	15.5dBi 17.5dBi	65°	0-8° T 0-8° T	C	1980	132
TDJ-809017/182018DE-65P	XXPol	806-960 1710-2170	17dBi 18dBi	65°	0-8° T 0-8° T		2580	133
TDJ-809017/182018DE-65P-C	XXPol	806-960 1710-2170	16.5dBi 17.5dBi	65°	0-8° T 0-8° T	C	2580	134
TDJ-809017/182020DE-65P	XXPol	806-960 1710-2170	17dBi 19.5dBi	65°	0-8° T 0-6° T		2580	135

Triple-band Antenna

TTB-9016/1817/2018DE-65P	XXXPol	870-960 1710-1880 1920-2170	16dBi 17dBi 17.5dBi	65°	0-10° T 0-10° T 0-10° T		1980	136
TTB-9017/1819/1819DE-65P-C	XXXPol	870-960 1710-1880 1710-1880	17dBi 19dBi 19dBi	65°	0-8° T 0-6° T 0-6° T	C	2580	137
TTB-809015/182015/182015DE-65P	XXXPol	824-960 1710-2170 1710-2170	15dBi 15dBi 15dBi	65°	0-10° T 0-10° T 0-10° T		1480	138
TTB-809015/182017/182017DE-65P	XXXPol	824-960 1710-2170 1710-2170	15dBi 17dBi 17dBi	65°	0-10° T 0-10° T 0-10° T		1480	139
TTB-809016/182018/182018DE-65P	XXXPol	824-960 1710-2170 1710-2170	16dBi 18dBi 18dBi	65°	0-8° T 0-8° T 0-8° T		1980	140
TTB-809017/182018/182018DE-65P	XXXPol	824-960 1710-2170 1710-2170	17dBi 18dBi 18dBi	65°	0-8° T 0-8° T 0-8° T		2580	141

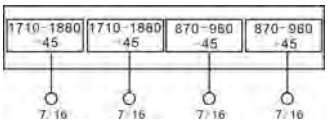
Tri-Sector Pipe Antenna

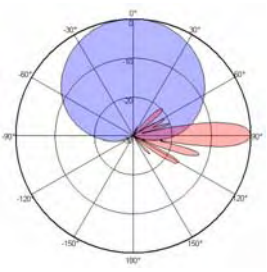
TTS-809015/182017DE-65F	XXPol	806-960 1710-2170	15dBi 17dBi	65°	0-10° T 0-10° T		1780	142

XXPol 870～960/1710～1880MHz 65° 15/17dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

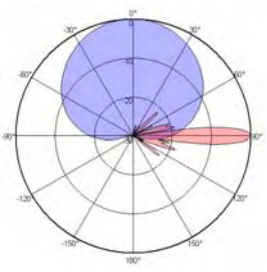
Electrical specifications		
Frequency range (MHz)	870～960	1710～1880
Polarization	±45°	
Gain (dBi)	15	17
Electrical downtilt (°)	0～15	0～10
Half-power beam width (°)	Hor:65 Vert:13	Hor:65 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10°...15° 16...15...15...14	0°...5°...10° 16...15...14
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400/200	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1600×268×138
Packing size (mm)	1960×365×215
Antenna weight (kg) (with installation kit)	22
Packing weight (kg)	25
Wind loading area (m²)	0.43
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





870～960 MHz

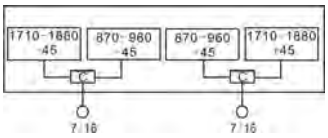


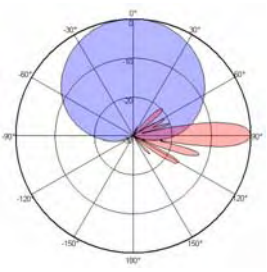
1710～1880 MHz

XXPol 870～960/1710～1880MHz 65° 14.5/16.5dBi Adjustable Electrical Downtilt Antenna with Built-In Combiner, Manual or by optional RCU (Remote Control Unit)

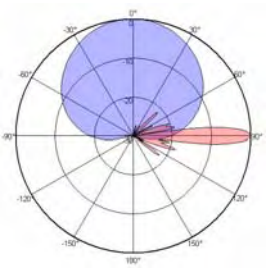
Electrical specifications		
Frequency range (MHz)	870～960	1710～1880
Polarization	±45°	
Gain (dBi)	14.5	16.5
Electrical downtilt (°)	0～15	0～10
Half-power beam width (°)	Hor:65 Vert:13	Hor:65 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10°...15° 16...15...15...14	0°...5°...10° 16...15...14
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400/200	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1600×268×138
Packing size (mm)	1985×365×220
Antenna weight (kg) (with installation kit)	22
Packing weight (kg)	25
Wind loading area (m²)	0.43
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





870～960 MHz

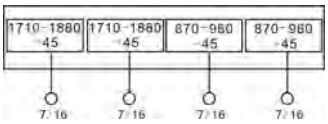


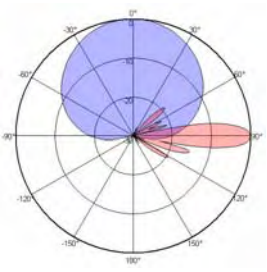
1710～1880 MHz

XXPol 870～960/1710～1880MHz 65° 17/17.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

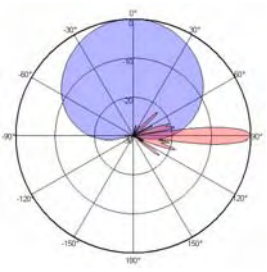
Electrical specifications		
Frequency range (MHz)	870～960	1710～1880
Polarization	±45°	
Gain (dBi)	17	17.5
Electrical downtilt (°)	0～8	0～8
Half-power beam width (°)	Hor:63 Vert:7.5	Hor:66 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 16...15...14	0°...4°...8° 16...15...14
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc	
Maximum input power (W)	400/200	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2935×365×220
Antenna weight (kg) (with installation kit)	26
Packing weight (kg)	32
Wind loading area (m²)	0.7
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





870～960 MHz

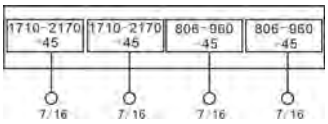


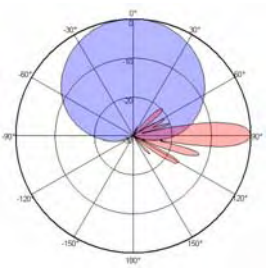
1710～1880 MHz

XXPol 806～960/1710～2170MHz 65° 15/17dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

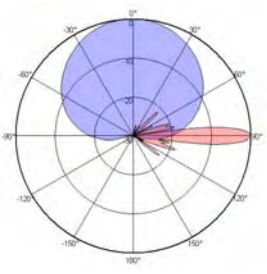
Electrical specifications					
Frequency range (MHz)	806～896	880～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	14.5	15	16.5	16.8	17
Electrical downtilt (°)	0～15	0～15	0～8	0～8	0～8
Half-power beam width (°)	Hor:65 Vert:14	Hor:63 Vert:13	Hor:66 Vert:7	Hor:64 Vert:6.5	Hor:63 Vert:6
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10°...15° 16...16...15...14		0°...4°...8° 15...15...14		
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1420×268×138
Packing size (mm)	1780×365×220
Antenna weight (kg) (with installation kit)	22
Packing weight (kg)	27
Wind loading area (m²)	0.38
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

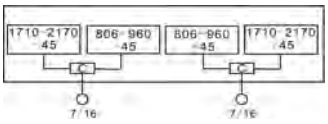


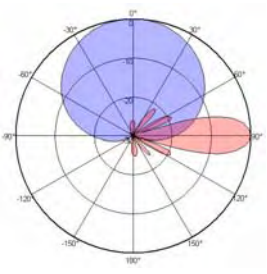
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 15/16.5dBi Adjustable Electrical Downtilt Antenna with Built-In Combiner, Manual or by optional RCU (Remote Control Unit)

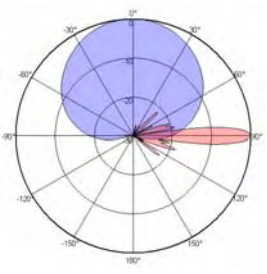
Electrical specifications					
Frequency range (MHz)	806～896	880～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	14.5	15	16	16.3	16.5
Electrical downtilt (°)	0～15	0～15	0～8	0～8	0～8
Half-power beam width (°)	Hor:65 Vert:14	Hor:63 Vert:13	Hor:66 Vert:7	Hor:64 Vert:6.5	Hor:63 Vert:6
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10°...15° 16...16...15...14		0°...4°...8° 15...15...14		
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1420×268×138
Packing size (mm)	1780×365×220
Antenna weight (kg) (with installation kit)	22
Packing weight (kg)	27
Wind loading area (m²)	0.38
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

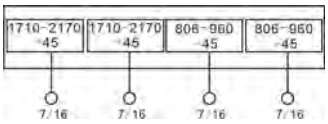


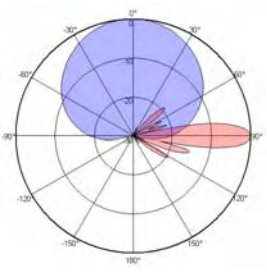
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 16/18dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

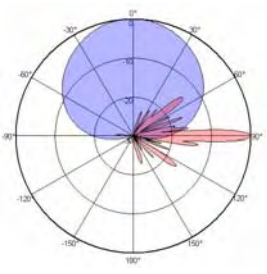
Electrical specifications					
Frequency range (MHz)	806～896	880～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	15.5	16	17.5	17.8	18
Electrical downtilt (°)	0～8	0～8	0～8	0～8	0～8
Half-power beam width (°)	Hor:65 Vert:10	Hor:63 Vert:9.5	Hor:66 Vert:5.5	Hor:64 Vert:5	Hor:63 Vert:5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 16...15...14		0°...4°...8° 16...15...14		
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×268×138
Packing size (mm)	2355×365×220
Antenna weight (kg) (with installation kit)	24
Packing weight (kg)	30
Wind loading area (m²)	0.53
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

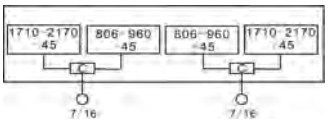


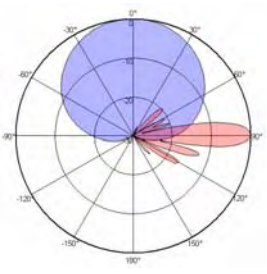
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 15.5/17.5dBi Adjustable Electrical Downtilt Antenna with Built-In Combiner, Manual or by optional RCU (Remote Control Unit)

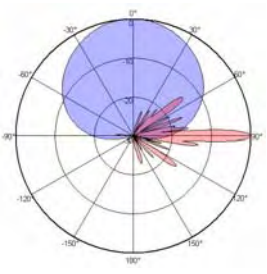
Electrical specifications					
Frequency range (MHz)	806～896	880～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	15	15.5	17	17.3	17.5
Electrical downtilt (°)	0～8	0～8	0～8	0～8	0～8
Half-power beam width (°)	Hor:65 Vert:10	Hor:63 Vert:9.5	Hor:66 Vert:5.5	Hor:64 Vert:5	Hor:63 Vert:5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 16...15...14		0°...4°...8° 16...15...13		
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×268×138
Packing size (mm)	2355×365×215
Antenna weight (kg) (with installation kit)	23
Packing weight (kg)	29
Wind loading area (m²)	0.6
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

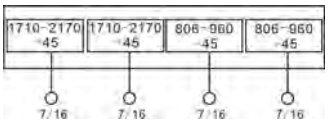


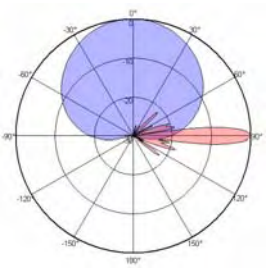
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 17/18dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

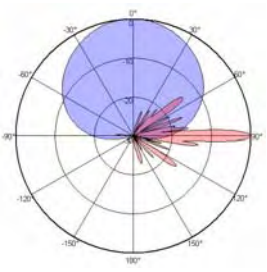
Electrical specifications					
Frequency range (MHz)	806～896	880～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	16.5	17	17.5	17.8	18
Electrical downtilt (°)	0～8	0～8	0～8	0～8	0～8
Half-power beam width (°)	Hor:66 Vert:8	Hor:64 Vert:7.5	Hor:66 Vert:5.5	Hor:64 Vert:5	Hor:63 Vert:5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 15...15...14		0°...4°...8° 15...15...14		
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2935×365×220
Antenna weight (kg) (with installation kit)	26
Packing weight (kg)	32
Wind loading area (m²)	0.7
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

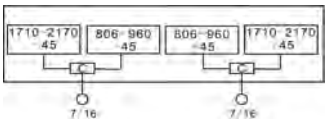


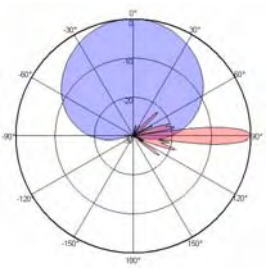
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 16.5/17.5dBi Adjustable Electrical Downtilt Antenna with Built-In Combiner, Manual or by optional RCU (Remote Control Unit)

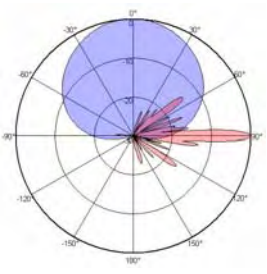
Electrical specifications					
Frequency range (MHz)	806～896	880～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	16	16.5	17	17.3	17.5
Electrical downtilt (°)	0～8	0～8	0～8	0～8	0～8
Half-power beam width (°)	Hor:66 Vert:8	Hor:64 Vert:7.5	Hor:66 Vert:5.5	Hor:64 Vert:5	Hor:63 Vert:5
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...4º...8º 15...15...14		0º...4º...8º 15...15...14		
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2935×365×220
Antenna weight (kg) (with installation kit)	26
Packing weight (kg)	32
Wind loading area (m²)	0.7
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

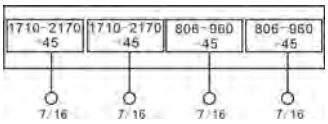


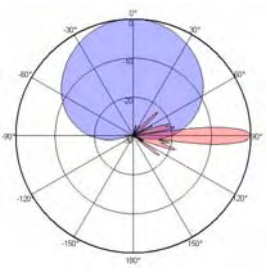
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 17/19.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

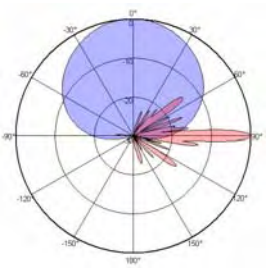
Electrical specifications					
Frequency range (MHz)	806～896	880～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	16.5	17	19	19.3	19.5
Electrical downtilt (°)	0～8	0～8	0～6	0～6	0～6
Half-power beam width (°)	Hor:67 Vert:8	Hor:65 Vert:7.5	Hor:66 Vert:4.5	Hor:64 Vert:4.3	Hor:63 Vert:4
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...4º...8º 15...15...14		0º...3º...6º 15...15...14		
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2935×365×220
Antenna weight (kg) (with installation kit)	26.4
Packing weight (kg)	31.2
Wind loading area (m²)	0.7
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

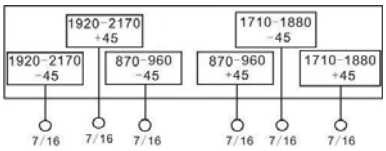


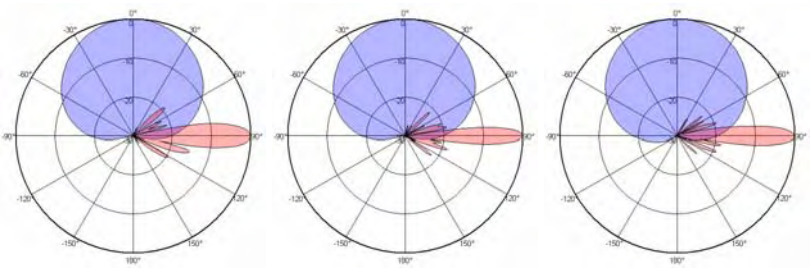
1710～2170MHz

XXXPol 870～960/1710～1880/1920～2170MHz 65° 16/17/17.5dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	870～960	1710～1880	1920～2170
Polarization	±45°		
Gain (dBi)	2×16	2×17	2×17.5
Electrical downtilt (°)	0～10	0～10	0～10
Half-power beam width (°)	Hor:65 Vert:9	Hor:66 Vert:7	Hor:64 Vert:6.4
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 16...15...13	0°...5°...10° 16...15...14	0°...5°...10° 16...15...14
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	400/200/200		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	6×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×268×138
Packing size (mm)	2355×365×220
Antenna weight (kg) (with installation kit)	23.8
Packing weight (kg)	27.3
Wind loading area (m²)	0.53
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115



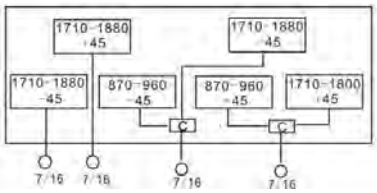


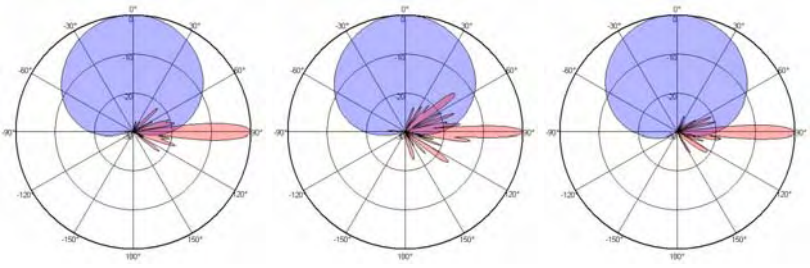
870～960MHz 1710～1880MHz 1920～2170MHz

XXXPol 870～960/1710～1880/1710～1880MHz 65° 17/19/19dBi Adjustable Electrical Downtilt Antenna with Built-In Combiner, Manual or by optional RCU (Remote Control Unit)

Electrical specifications			
Frequency range (MHz)	870～960	1710～1880	1710～1880
Polarization	±45°		
Gain (dBi)	17	19	19
Electrical downtilt (°)	0～8	0～6	0～6
Half-power beam width (°)	Hor:66 Vert:7.5	Hor:65 Vert:5	Hor:65 Vert:5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 16...15...14	0°...3°...6° 16...15...14	0°...3°...6° 16...15...14
Front-to-back ratio (dB)	≥25		
Isolation (dB)	≥30		
Cross-polar ratio (dB)	≥15(±60° ≥10)		
Impedance (Ω)	50		
VSWR	≤1.5		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum input power (W)	400/200/200		
Lightning protection	DC Ground		

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×298×146
Packing size (mm)	2935×373×228
Antenna weight (kg) (with installation kit)	31
Packing weight (kg)	35.5
Wind loading area (m²)	0.77
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115



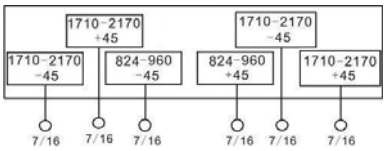


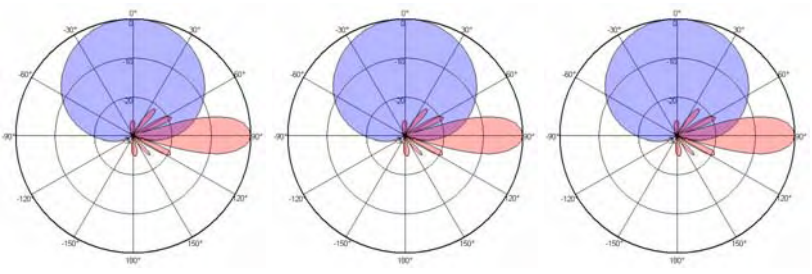
870～960MHz 1710～1880MHz 1710～1880MHz

XXXPol 824～960/1710～2170/1710～2170MHz 65° 15/15/15dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications				
Frequency range (MHz)	824～896	880～960	1710～1880	1920～2170
Polarization	±45°			
Gain (dBi)	2×14.5	2×15	2×14.5 2×14.5	2×15 2×15
Electrical downtilt (°)	0～10	0～10	0～10	0～10
Half-power beam width (°)	Hor:66 Vert:14.5	Hor:64 Vert:13.5	Hor:66 Vert:13	Hor:64 Vert:12
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...5º...10º 15...15...14	0º...5º...10º 15...15...14	0º...5º...10º 15...15...14	0º...5º...10º 15...15...15
Front-to-back ratio (dB)	≥25			
Isolation (dB)	≥30			
Cross-polar ratio (dB)	≥15(±60° ≥10)			
Impedance (Ω)	50			
VSWR	≤1.5			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Maximum input power (W)	400/200/200			
Lightning protection	DC Ground			

Mechanical specifications	
Connector	6×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1480×298×146
Packing size (mm)	1865×373×228
Antenna weight (kg) (with installation kit)	20.8
Packing weight (kg)	24.1
Wind loading area (m²)	0.44
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115



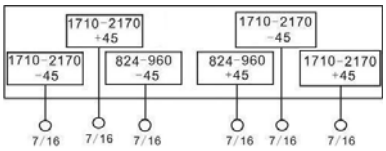


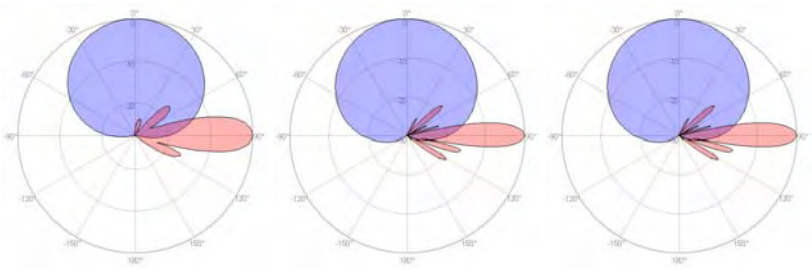
824～960MHz 1710～2170MHz 1710～2170MHz

XXXPol 824～960/1710～2170/1710～2170MHz 65° 15/17/17dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications					
Frequency range (MHz)	824～896	880～960	1710～1880	1855～1990	1920～2170
Polarization	±45°				
Gain (dBi)	2×14.5	2×15	2×16.5 2×16.5	2×16.8 2×16.8	2×17 2×17
Electrical downtilt (°)	0～10	0～10	0～10	0～10	0～10
Half-power beam width (°)	Hor:70 Vert:14.5	Hor:68 Vert:13.5	Hor:68 Vert:7	Hor:64 Vert:6.5	Hor:62 Vert:6
Sidelobe suppression (dB) (First sidelobe above main beam)	0º...5º...10º 15...15...14	0º...5º...10º 15...15...14	0º...5º...10º 15...15...14	0º...5º...10º 15...15...15	0º...5º...10º 15...15...15
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				
Maximum input power (W)	400/200/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	6×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1480×268×138
Packing size (mm)	1855×395×275
Antenna weight (kg) (with installation kit)	23.7
Packing weight (kg)	27.5
Wind Load	60
Wind loading area (m²)	0.41
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115



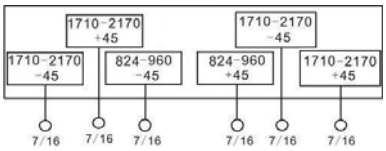


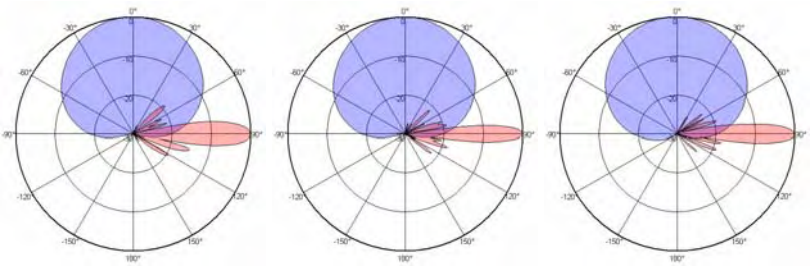
824～960MHz 1710～2170MHz 1710～2170MHz

XXXPol 824～960/1710～2170/1710～2170MHz 65° 16/18/18dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications				
Frequency range (MHz)	824～896	880～960	1710～1880	1920～2170
Polarization	±45°			
Gain (dBi)	2×15.5	2×16	2×17.5 2×17.5	2×18 2×18
Electrical downtilt (°)	0～8	0～8	0～8	0～8
Half-power beam width (°)	Hor:66 Vert:9.5	Hor:64 Vert:8.5	Hor:66 Vert:6.8	Hor:64 Vert:6.2
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 16...15...14	0°...4°...8° 16...15...14	0°...4°...8° 16...15...14	0°...4°...8° 16...15...14
Front-to-back ratio (dB)	≥25			
Isolation (dB)	≥30			
Cross-polar ratio (dB)	≥15 (±60° ≥10)			
Impedance (Ω)	50			
VSWR	≤1.5			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Maximum input power (W)	400/200/200			
Lightning protection	DC Ground			

Mechanical specifications	
Connector	6×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×298×146
Packing size (mm)	2355×373×228
Antenna weight (kg) (with installation kit)	23.8
Packing weight (kg)	27.3
Wind loading area (m²)	0.59
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115



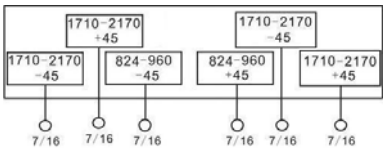


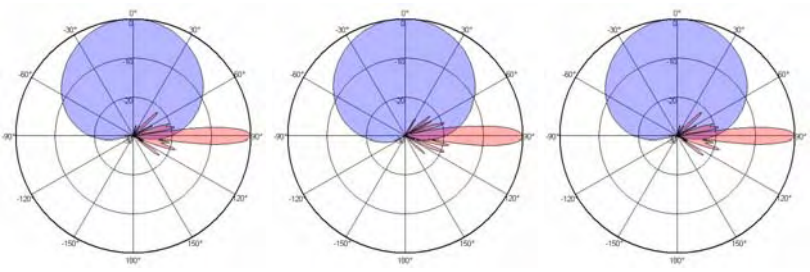
824～960MHz 1710～2170MHz 1710～2170MHz

XXXPol 824～960/1710～2170/1710～2170MHz 65° 17/18/18dBi Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications				
Frequency range (MHz)	824～896	880～960	1710～1880	1920～2170
Polarization	±45°			
Gain (dBi)	2×16.5	2×17	2×17.5 2×17.5	2×18 2×18
Electrical downtilt (°)	0～8	0～8	0～8	0～8
Half-power beam width (°)	Hor:66 Vert:7.8	Hor:64 Vert:7.3	Hor:66 Vert:6.8	Hor:64 Vert:6.2
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...4°...8° 16...15...14	0°...4°...8° 16...15...14	0°...4°...8° 16...15...14	0°...4°...8° 16...15...14
Front-to-back ratio (dB)	≥25			
Isolation (dB)	≥30			
Cross-polar ratio (dB)	≥15(±60° ≥10)			
Impedance (Ω)	50			
VSWR	≤1.5			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Maximum input power (W)	400/200/200			
Lightning protection	DC Ground			

Mechanical specifications	
Connector	6×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×298×146
Packing size (mm)	2935×373×228
Antenna weight (kg) (with installation kit)	29
Packing weight (kg)	33
Wind loading area (m²)	0.77
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Uv PVC
Radome color	PANTONE-5517C
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115

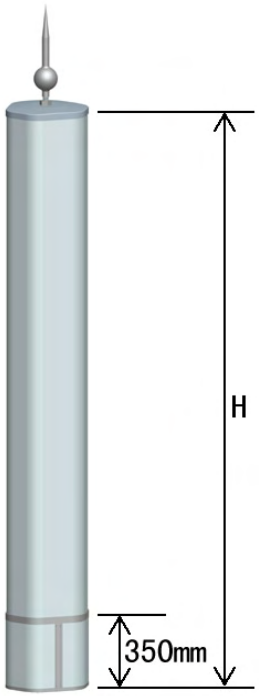




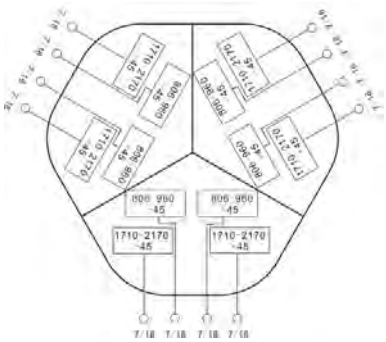
824～960MHz 1710～2170MHz 1710～2170MHz

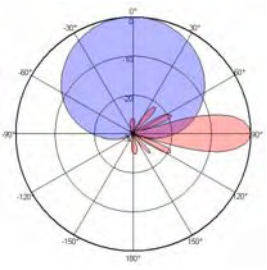
XXPol 806～960/1710～2170MHz 65° 15/17dBi Tri-Sector Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications					
Frequency range (MHz)	806～896	880～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	14.5	15	16.2	16.5	16.8
Electrical downtilt (°)	0～10	0～10	0～10	0～10	0～10
Half-power beam width (°)	Hor:66 Vert:14	Hor:64 Vert:13	Hor:66 Vert:9.5	Hor:64 Vert:9	Hor:63 Vert:8.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 16...16...15		0°...5°...10° 16...15...15		
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

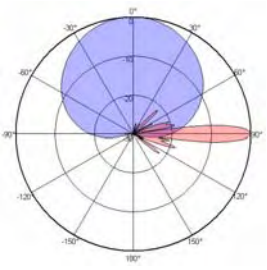


Mechanical specifications	
Connector	3×4×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	1780×Δ400
Packing size (mm)	1980×575×575
Antenna weight (kg) (with installation kit)	58.7
Packing weight (kg)	79.5
Wind loading area (m²)	0.71
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	PANTONE-5517C
Operating temperature (℃)	-50～65
Mounting interface	Flange Connection 6×M12 at graduated diameter of 220 ㎜, 0~360° continuously adjustable





806～960MHz



1710～2170MHz

Fixed Electrical Downtilt Antennas 800/900-1800/1900/2000

TDJ-809014/182015D-65PT0	XXPol	806-960 1710-2170	14dBi 15dBi	65°	0° T 0° T		1290	144
TDJ-809014/182015D-65PT0-C	XXPol	806-960 1710-2170	14dBi 15dBi	65°	0° T 0° T	C	1290	145
TDJ-809015/182016D-65PT0	XXPol	806-960 1710-2170	15dBi 16dBi	65°	0° T 0° T		1410	146
TDJ-809015/182017D-65FT6-C	XXPol	806-960 1810-2170	15dBi 17dBi	65°	6° T 6° T	C	1480	147
TDJ-809017/182017D-65PT2T4	XXPol	806-960 1710-2170	17dBi 17dBi	65°	2° T 4° T		1980	148
TDJ-809017/182018D-65PT0-C	XXPol	806-960 1710-2170	17dBi 18dBi	65°	0° T 0° T	C	1980	149
TDJ-809018/182018D-65PT0-C	XXPol	809-960 1710-2170	18dBi 18dBi	65°	0° T 0° T	C	2580	150
TDJ-809018/182018D-65PT6T2	XXPol	806-960 1710-2170	18dBi 18dBi	65°	6° T 2° T		2580	151

Tri-Sector Pipe Antenna

TTS-809015/182017D-65FT6-C-A	XXPol	806-960 1710-2170	15dBi 17dBi	65°	6° T 6° T	C	1880	152

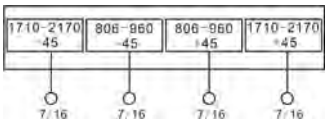
Single Polarization Antenna

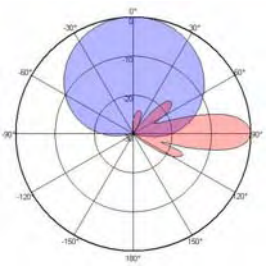
TDJ-809015/182016A-65PT0	VVPol	806-960 1710-2170	15dBi 16dBi	65°	0° T 0° T		1410	153

XXPol 806～960/1710～2170MHz 65° 14/15dBi Fixed Tilt 0°/0° Sector Panel Antenna

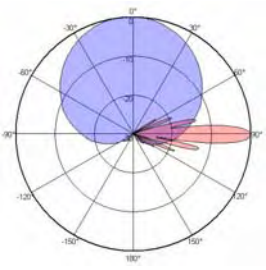
Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	13.5	14	14.5	15	15
Electrical downtilt (°)	0		0		
Half-power beam width (°)	Hor:68 Vert:15	Hor:65 Vert:14	Hor:68 Vert:9	Hor:65 Vert:8	Hor:61 Vert:7.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		≥15		
Front-to-back ratio (dB)	≥28				
Isolation (dB)	≥28				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1290×268×138
Packing size (mm)	1445×370×225
Antenna weight (kg) (with installation kit)	12.5
Packing weight (kg)	15.5
Wind loading area (m²)	0.28
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

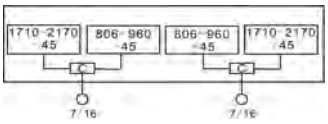


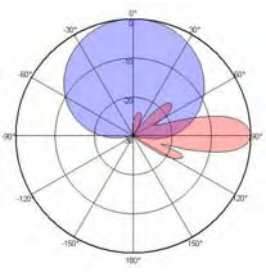
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 14/15dBi Fixed Tilt 0°/0° Sector Panel Antenna with Built-In Combiner

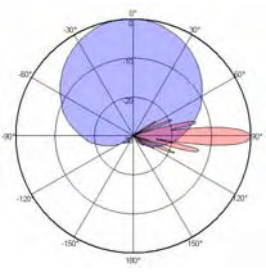
Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	13.5	14	14.5	15	15
Electrical downtilt (°)	0		0		
Half-power beam width (°)	Hor:68 Vert:15	Hor:65 Vert:14	Hor:68 Vert:9	Hor:65 Vert:8	Hor:61 Vert:7.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15		≥15		
Front-to-back ratio (dB)	≥28				
Isolation (dB)	≥28				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.5				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1290×268×138
Packing size (mm)	1445×370×225
Antenna weight (kg) (with installation kit)	12.5
Packing weight (kg)	15.5
Wind loading area (m²)	0.28
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

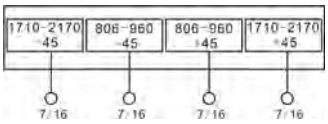


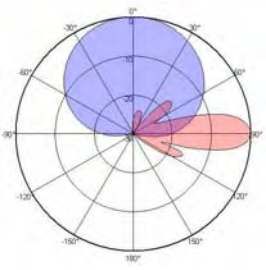
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 15/16dBi Fixed Tilt 0°/0° Sector Panel Antenna

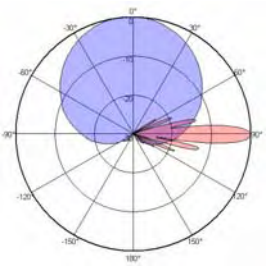
Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	14.5	15	15.5	16	16
Electrical downtilt (°)	0		0		
Half-power beam width (°)	Hor:68 Vert:14	Hor:65 Vert:13	Hor:68 Vert:8	Hor:65 Vert:7.5	Hor:61 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16		≥15		
Front-to-back ratio (dB)	≥30				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.4				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1410×268×138
Packing size (mm)	1795×370×225
Antenna weight (kg) (with installation kit)	15.5
Packing weight (kg)	18.5
Wind loading area (m²)	0.38
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





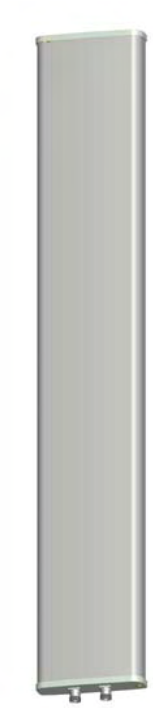
806～960MHz



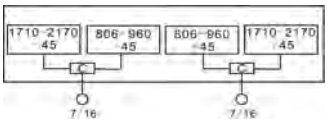
1710～2170MHz

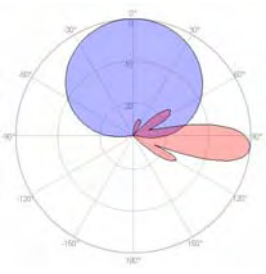
XXPol 806～960/1710～2170MHz 65° 15/17dBi Fixed Tilt 6°/6° Sector Panel Antenna with Built-In Combiner

Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	14.5	15	16	16	16.5
Electrical downtilt (°)	6		6		
Half-power beam width (°)	Hor:68 Vert:14	Hor:65 Vert:13	Hor:68 Vert:7	Hor:65 Vert:6	Hor:61 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16		≥15		
Front-to-back ratio (dB)	≥30				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.4				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

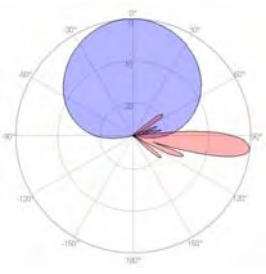


Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1480×268×138
Packing size (mm)	1865×370×225
Antenna weight (kg) (with installation kit)	15.5
Packing weight (kg)	18.5
Wind loading area (m²)	0.38
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





806～960MHz

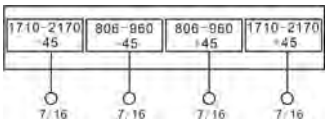


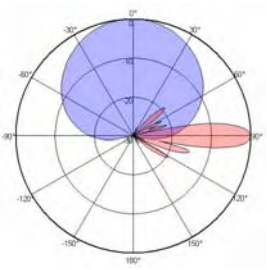
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 17/17dBi Fixed Tilt 2°/4° Sector Panel Antenna

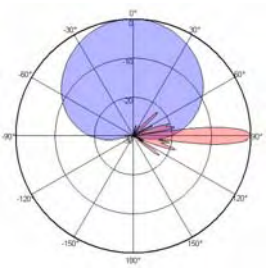
Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	16.5	17	16.5	17	17
Electrical downtilt (°)	2		4		
Half-power beam width (°)	Hor:68 Vert:9	Hor:65 Vert:8.5	Hor:68 Vert:7	Hor:65 Vert:6	Hor:61 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16		≥15		
Front-to-back ratio (dB)	≥30				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.4				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×268×138
Packing size (mm)	2355×370×225
Antenna weight (kg) (with installation kit)	18.5
Packing weight (kg)	23.5
Wind loading area (m²)	0.5
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





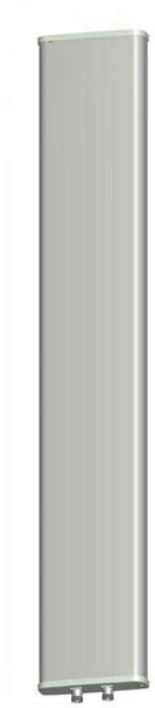
806～960MHz



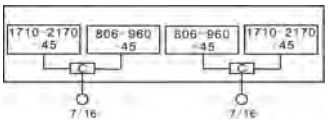
1710～2170MHz

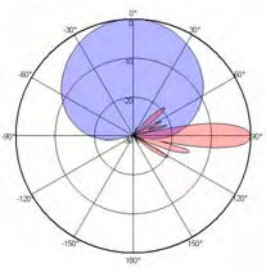
XXPol 806～960/1710～2170MHz 65° 17/18dBi Fixed Tilt 0°/0° Sector Panel Antenna with Built-In Combiner

Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	16	16.5	17	17	17.5
Electrical downtilt (°)	0		0		
Half-power beam width (°)	Hor:68 Vert:9	Hor:65 Vert:8.5	Hor:68 Vert:6.5	Hor:65 Vert:6	Hor:61 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16		≥15		
Front-to-back ratio (dB)	≥30				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.4				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

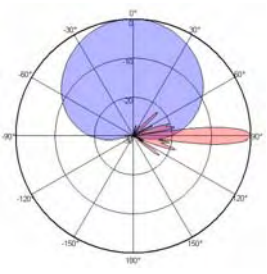


Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1980×268×138
Packing size (mm)	2355×370×225
Antenna weight (kg) (with installation kit)	18.5
Packing weight (kg)	23.5
Wind loading area (m²)	0.5
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





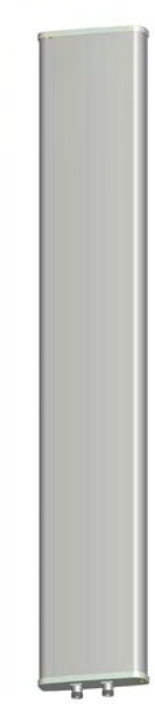
806～960MHz



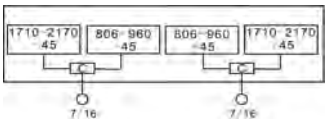
1710～2170MHz

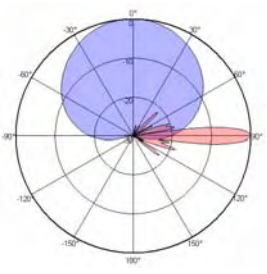
XXPol 806～960/1710～2170MHz 65° 18/18dBi Fixed Tilt 0°/0° Sector Panel Antenna with Built-In Combiner

Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	17	17.5	17	17	17.5
Electrical downtilt (°)	0		0		
Half-power beam width (°)	Hor:68 Vert:7	Hor:65 Vert:6.5	Hor:68 Vert:6.5	Hor:65 Vert:6	Hor:61 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16		≥15		
Front-to-back ratio (dB)	≥30				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.4				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

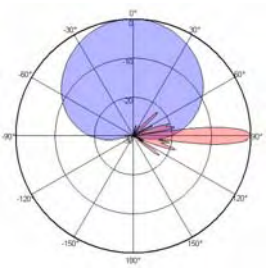


Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2935×365×220
Antenna weight (kg) (with installation kit)	22.5
Packing weight (kg)	28
Wind loading area (m²)	0.68
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz

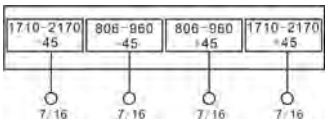


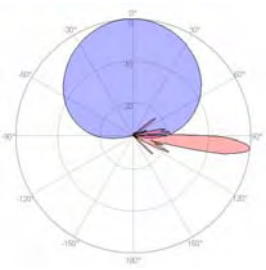
1710～2170MHz

XXPol 806～960/1710～2170MHz 65° 18/18dBi Fixed Tilt 6°/2° Sector Panel Antenna

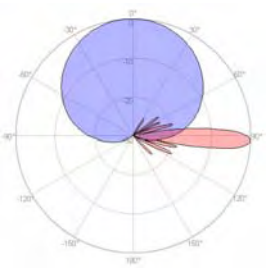
Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	17	17.5	17.5	17.5	18
Electrical downtilt (°)	6		2		
Half-power beam width (°)	Hor:68 Vert:7	Hor:65 Vert:6.5	Hor:68 Vert:6.5	Hor:65 Vert:6	Hor:61 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16		≥15		
Front-to-back ratio (dB)	≥30				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.4				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	4×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2580×268×138
Packing size (mm)	2935×365×220
Antenna weight (kg) (with installation kit)	22.5
Packing weight (kg)	28
Wind loading area (m²)	0.68
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





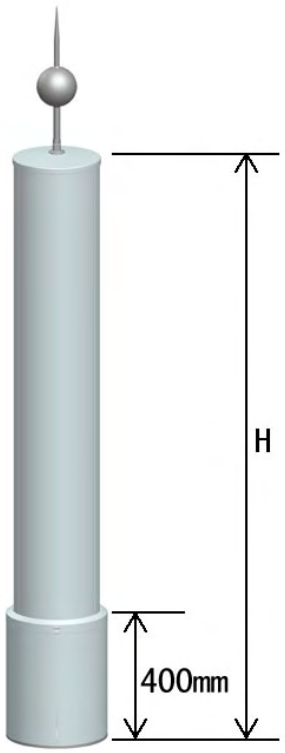
806～960MHz



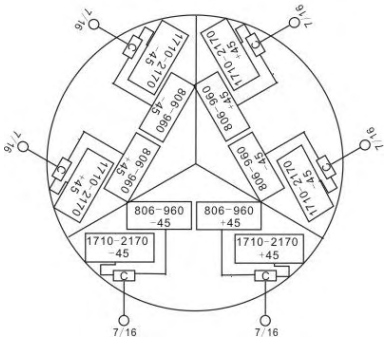
1710～2170MHz

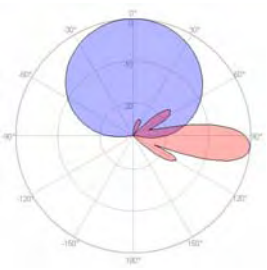
XXPol 806～960/1710～2170MHz 65° 15/17dBi Fixed Tilt 6°/6° Tri-Sector Antenna with Built-In Combiner

Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	±45°				
Gain (dBi)	14.5	15	16	16	16.5
Electrical downtilt (°)	6		6		
Half-power beam width (°)	Hor:68 Vert:14	Hor:65 Vert:13	Hor:68 Vert:7	Hor:65 Vert:6	Hor:61 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16		≥15		
Front-to-back ratio (dB)	≥30				
Isolation (dB)	≥30				
Cross-polar ratio (dB)	≥15(±60° ≥10)				
Impedance (Ω)	50				
VSWR	≤1.4				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

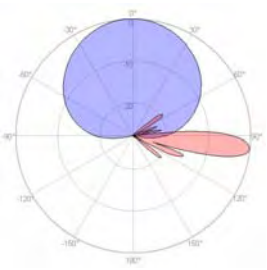


Mechanical specifications	
Connector	3×2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1880×φ550
Packing size Height×Diameter (mm)	(1850×600×600)+(1100×700×700)
Antenna weight (kg) (with installation kit)	72
Packing weight (kg)	84
Wind loading area (m²)	1.28
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Mechanical panning (°)	±15°adjustable
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ160～φ179





806～960MHz

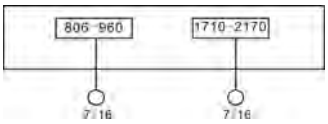


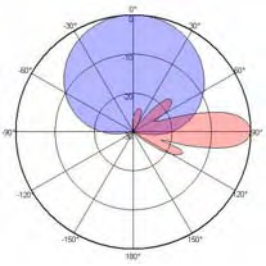
1710～2170MHz

VVPol 806～960/1710～2170MHz 65° 15/16dBi Fixed Tilt 0°/0° Sector Panel Antenna

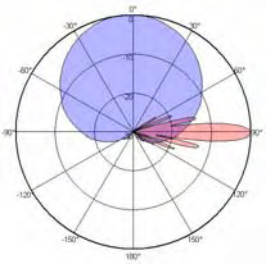
Electrical specifications					
Frequency range (MHz)	806～890	890～960	1710～1880	1850～1990	1920～2170
Polarization	Vertical				
Gain (dBi)	14.5	15	15.5	16	16
Electrical downtilt (°)	0		0		
Half-power beam width (°)	Hor:68 Vert:14	Hor:65 Vert:13	Hor:68 Vert:8	Hor:65 Vert:7.5	Hor:61 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16		≥15		
Front-to-back ratio (dB)	≥25				
Isolation (dB)	≥30				
Impedance (Ω)	50				
VSWR	≤1.4				
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc				
Maximum input power (W)	400/200				
Lightning protection	DC Ground				

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1410×268×138
Packing size (mm)	1795×370×225
Antenna weight (kg) (with installation kit)	13.5
Packing weight (kg)	16.5
Wind loading area (m²)	0.33
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Mechanical tilt (°)	0～10
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





806～960MHz



1710～2170MHz

Directional Antennas 2300…5900

Variable Electrical Downtilt Antenna 2300-2700

Model	Type					Height	Page
TDJ-232718DE-65	XPol	2300-2700	18dBi	65°	0-10° T	1065	156
TDQ-232718DE-65P	XXPol	2300-2700	17.5dBi	65°	0-10° T	1210	157
TTS-232718DE-65F	XPol	2300-2700	17.5dBi	65°	0-10° T	1065	158

Fixed Electrical Downtilt Antenna 2300-2700

TDJ-232712D-65PT0	XPol	2300-2700	12dBi	65°	0° T	255	159
TDJ-232715D-65PT0	XPol	2300-2700	15dBi	65°	0° T	523	160
TDJ-232717D-65PT0	XPol	2300-2700	17dBi	65°	0° T	930	161
TDJ-232718D-65PT0	XPol	2300-2700	18dBi	65°	0° T	1130	162
TDJ-232715D-90PT0	XPol	2300-2700	15dBi	90°	0° T	700	163
TDJ-232717D-90PT0	XPol	2300-2700	17dBi	90°	0° T	1130	164
TDJ-232712AM-65PT0	VPol	2300-2700	12dBi	65°	0° T	220	165
TDJ-232715AM-65PT0	VPol	2300-2700	15dBi	65°	0° T	430	166
TDJ-232717AM-65PT0	VPol	2300-2700	17dBi	65°	0° T	930	167
TDJ-232718AM-65PT0	VPol	2300-2700	18dBi	65°	0° T	1140	168
TDJ-232711AM-90PT0	VPol	2300-2700	11dBi	90°	0° T	230	169
TDJ-232715AM-90PT0	VPol	2300-2700	15dBi	90°	0° T	720	170
TDJ-232717AM-90PT0	VPol	2300-2700	17dBi	90°	0° T	1110	171
TDJ-232718AM-90PT0	VPol	2300-2700	18dBi	90°	0° T	1320	172
TDJ-232709A-120PT0	VPol	2300-2700	9dBi	120°	0° T	220	173
TDJ-232712A-120PT0	VPol	2300-2700	12dBi	120°	0° T	430	174
TDJ-232715A-120PT0	VPol	2300-2700	15dBi	120°	0° T	1140	175

Fixed Electrical Downtilt Antenna 3300-3800

TDJ-333818D-65PT0	XPol	3300-3800	18dBi	65°	0° T	780	176
TDJ-333815A-65PT0	VPol	3300-3800	15dBi	65°	0° T	360	177
TDJ-333817A-65PT0	VPol	3300-3800	17dBi	65°	0° T	650	178
TDJ-333818A-65PT0	VPol	3300-3800	18dBi	65°	0° T	800	179
TDJ-333814A-90PT0	VPol	3300-3800	14dBi	90°	0° T	360	180
TDJ-333815A-90PT0	VPol	3300-3800	15dBi	90°	0° T	500	181
TDJ-333817A-90PT0	VPol	3300-3800	17dBi	90°	0° T	790	182
TDJ-333814A-120PT0	VPol	3300-3800	14dBi	120°	0° T	680	183
TDJ-333815A-120PT0	VPol	3300-3800	15dBi	120°	0° T	850	184

Fixed Electrical Downtilt Antenna 5100-5900

TDJ-575915A-90	VPol	5725-5875	15dBi	90°	0° T	403	185
TDJ-515916A-120	VPol	5100-5900	16dBi	120°	0° T	550	186

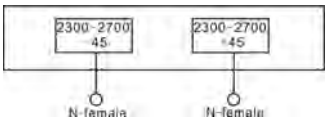
Dual-band Antenna

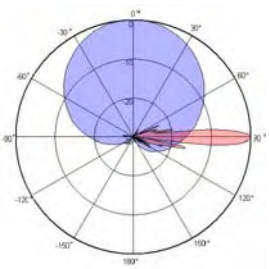
TDJ-242512575916D-65PT0	XXPol	2400-2500 5725-5875	12dBi 16dBi	65°	0° T	600	187
TDJ-242512575916A-65PT0	VVPol	2400-2500 5725-5875	12dBi 16dBi	65°	0° T	600	188

Xpol 2300～2700MHz 65° 18dBi Adjustable Electrical Downtilt Antenna, Maual or by optional RCU (Remote Control Unit)

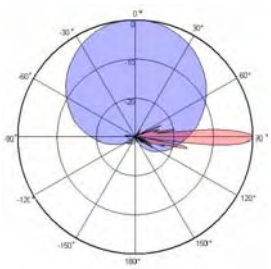
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	±45°	
Gain (dBi)	17	17.5
Electrical downtilt (°)	0～10	
Half-power beam width (°)	Hor:65 Vert:7	Hor:63 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 15...15...14	0°...5°...10° 15...15...14
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×N－female
Connector position	Bottom
Height×width×depth (mm)	1065×165×68
Packing size (mm)	1400×215×160
Antenna weight (kg) (with installation kit)	10
Packing weight (kg)	12
Wind loading area (m²)	0.08
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass or UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65 or -40～60
Mounting hardware (mm)	φ50～φ115





2300MHz

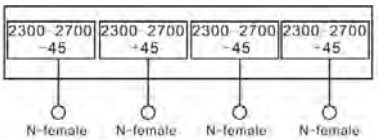


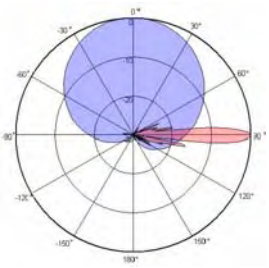
2700MHz

XXpol 2300～2700MHz 65° 17.5dBi Adjustable Electrical Downtilt Antenna, Maual or by optional RCU (Remote Control Unit)

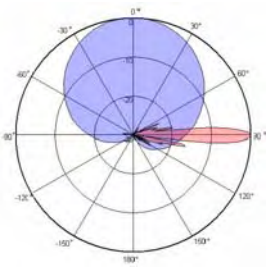
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	±45°	
Gain (dBi)	17	17.5
Electrical downtilt (°)	0～10	
Half-power beam width (°)	Hor:65 Vert:7	Hor:63 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 15...15...14	0°...5°...10° 15...15...14
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	4×N－female
Connector position	Bottom
Height×width×depth (mm)	1210×280×85
Packing size (mm)	1400×365×185
Antenna weight (kg) (with installation kit)	18
Packing weight (kg)	21
Wind loading area (m²)	0.34
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass or UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





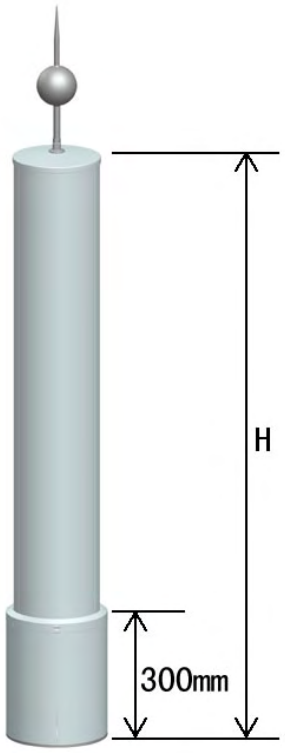
2300～2700MHz



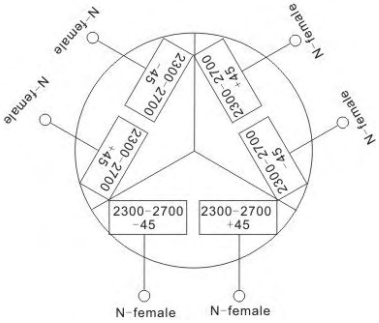
2300～2700MHz

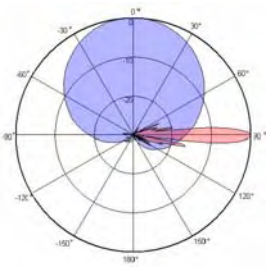
Xpol 2300～2700MHz 65° 17.5dBi Tri-Sector Adjustable Electrical Downtilt Antenna, Manual or by optional RCU (Remote Control Unit)

Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	±45°	
Gain (dBi)	17	17.5
Electrical downtilt (°)	0～10	
Half-power beam width (°)	Hor:65 Vert:7	Hor:63 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...5°...10° 15...15...14	0°...5°...10° 15...15...14
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	200W	
Lightning protection	DC Ground	

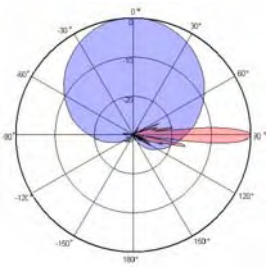


Mechanical specifications	
Connector	3×2×N－female
Connector position	Bottom
Height×Diameter (mm)	1065×φ250
Packing size (mm)	1400×360×360
Antenna weight (kg) (with installation kit)	28
Packing weight (kg)	36
Wind loading area (m²)	0.28
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass or UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60





2300MHz

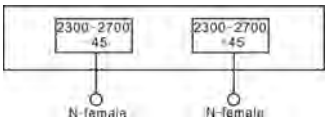


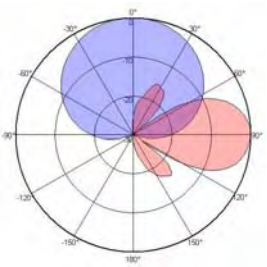
2700MHz

Xpol 2300～2700MHz 65° 12dBi Fixed Tilt 0° Sector Panel Antenna

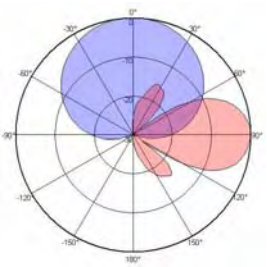
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	±45°	
Gain (dBi)	11.5	12
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:30	Hor:63 Vert:28
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×N－female
Connector position	Bottom
Height×width×depth (mm)	255×167×56
Packing size (mm)	360×210×155
Antenna weight (kg) (with installation kit)	2
Packing weight (kg)	3.1
Wind loading area (m²)	0.04
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

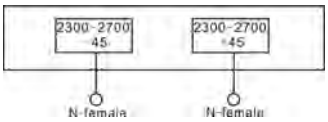


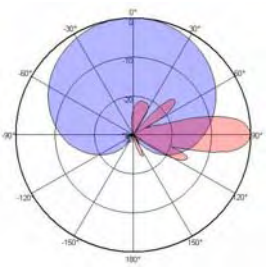
2700MHz

Xpol 2300～2700MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

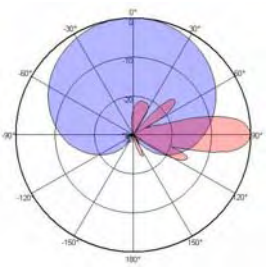
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	±45°	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:13.5	Hor:63 Vert:13
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15	
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×N－female
Connector position	Bottom
Height×width×depth (mm)	523×167×56
Packing size (mm)	640×230×160
Antenna weight (kg) (with installation kit)	2.35
Packing weight (kg)	3.1
Wind loading area (m²)	0.09
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

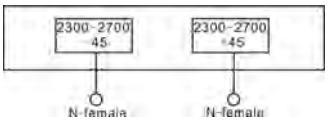


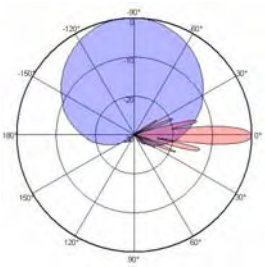
2700MHz

Xpol 2300～2700MHz 65° 17dBi Fixed Tilt 0° Sector Panel Antenna

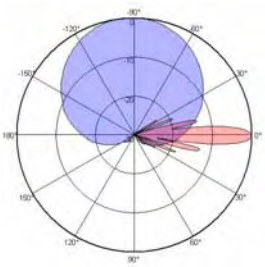
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	±45°	
Gain (dBi)	16.5	17
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:7.5	Hor:63 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15	
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×N－female
Connector position	Bottom
Height×width×depth (mm)	930×167×56
Antenna weight (kg) (with installation kit)	3.6
Packing weight (kg)	4.5
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





2300MHz

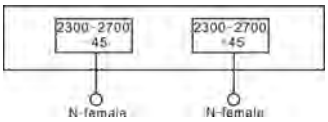


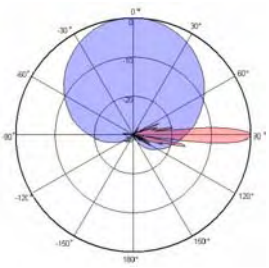
2700MHz

Xpol 2300～2700MHz 65° 18dBi Fixed Tilt 0° Sector Panel Antenna

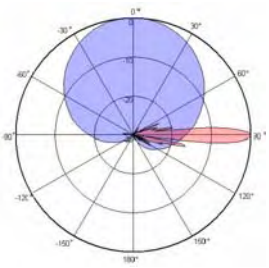
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	±45°	
Gain (dBi)	17.5	18
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:6	Hor:63 Vert:5.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15	
Front-to-back ratio (dB)	≥25	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×N－female
Connector position	Bottom
Height×width×depth (mm)	1130×167×56
Packing size (mm)	1270×215×160
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	6.5
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

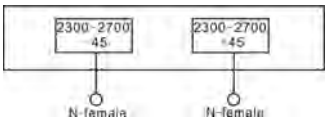


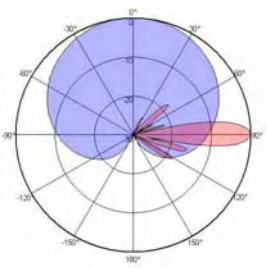
2700MHz

Xpol 2300～2700MHz 90° 15dBi Fixed Tilt 0° Sector Panel Antenna

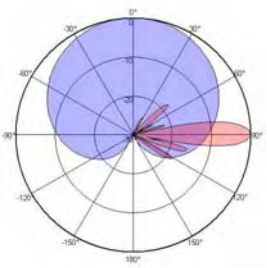
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	±45°	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:10	Hor:85 Vert:9.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15	
Front-to-back ratio (dB)	≥23	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×N－female
Connector position	Bottom
Height×width×depth (mm)	700×114×54
Packing size (mm)	800×210×145
Antenna weight (kg) (with installation kit)	2.1
Packing weight (kg)	3.1
Wind loading area (m²)	0.08
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass or UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





2300MHz

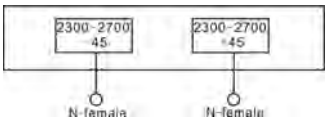


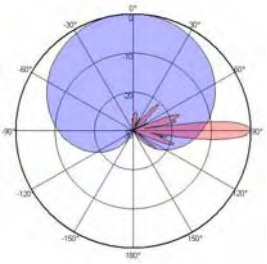
2700MHz

Xpol 2300～2700MHz 90° 17dBi Fixed Tilt 0° Sector Panel Antenna

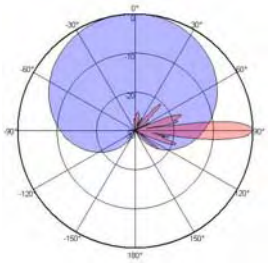
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	±45°	
Gain (dBi)	16.5	17
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:6.5	Hor:85 Vert:6
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15	
Front-to-back ratio (dB)	≥23	
Isolation (dB)	≥30	
Cross-polar ratio (dB)	≥15(±60° ≥10)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×N－female
Connector position	Bottom
Height×width×depth (mm)	1130×114×54
Packing size (mm)	1270×170×130
Antenna weight (kg) (with installation kit)	3.1
Packing weight (kg)	4
Wind loading area (m²)	0.13
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass or UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

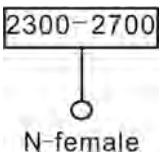


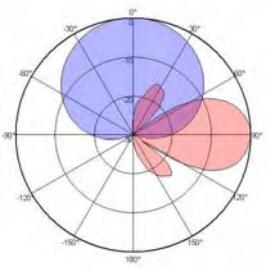
2700MHz

Vpol 2300～2700MHz 65° 12dBi Fixed Tilt 0° Sector Panel Antenna

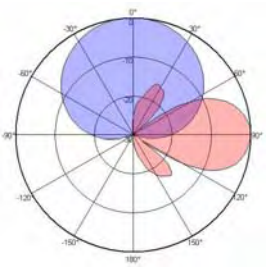
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	11.5	12
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:30	Hor:63 Vert:28
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	220×167×56
Packing size (mm)	300×230×180
Antenna weight (kg) (with installation kit)	1.8
Packing weight (kg)	3
Wind loading area (m²)	0.06
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

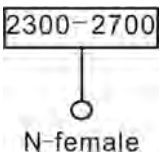


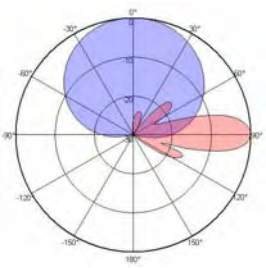
2700MHz

Vpol 2300～2700MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

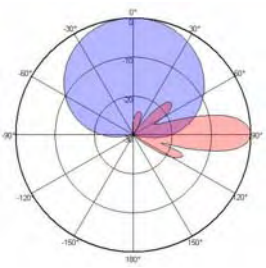
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:15	Hor:63 Vert:14
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	430×167×56
Packing size (mm)	520×230×180
Antenna weight (kg) (with installation kit)	2.5
Packing weight (kg)	4
Wind loading area (m²)	0.09
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

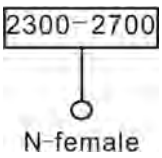


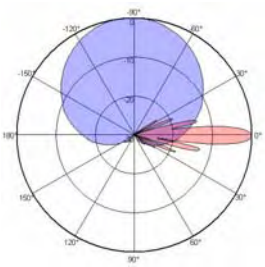
2700MHz

Vpol 2300～2700MHz 65° 17dBi Fixed Tilt 0° Sector Panel Antenna

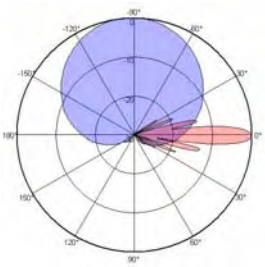
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	16.5	17
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:7.5	Hor:63 Vert:7
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	930×167×56
Packing size (mm)	1100×230×180
Antenna weight (kg) (with installation kit)	5.9
Packing weight (kg)	7.5
Wind loading area (m²)	0.16
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

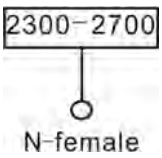


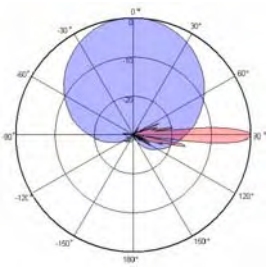
2700MHz

Vpol 2300～2700MHz 65° 18dBi Fixed Tilt 0° Sector Panel Antenna

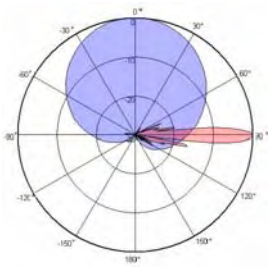
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	17.5	18
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:6	Hor:63 Vert:5.5
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	1140×167×56
Packing size (mm)	1320×230×180
Antenna weight (kg) (with installation kit)	6.5
Packing weight (kg)	8
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

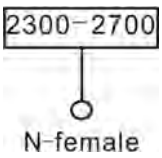


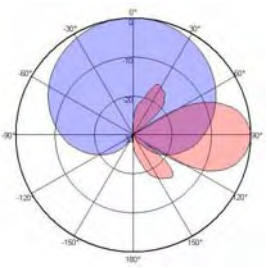
2700MHz

Vpol 2300～2700MHz 90° 11dBi Fixed Tilt 0° Sector Panel Antenna

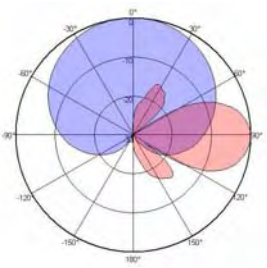
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	10.5	11
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:30	Hor:85 Vert:28
Front-to-back ratio (dB)	≥23	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	230×114×54
Packing size (mm)	310×170×130
Antenna weight (kg) (with installation kit)	1.2
Packing weight (kg)	1.7
Wind loading area (m²)	0.025
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

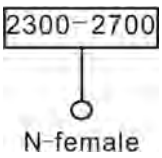


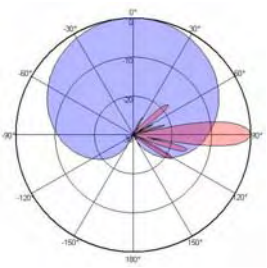
2700MHz

Vpol 2300～2700MHz 90° 15dBi Fixed Tilt 0° Sector Panel Antenna

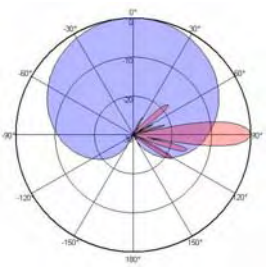
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:10	Hor:85 Vert:9.5
Front-to-back ratio (dB)	≥23	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	720×114×54
Packing size (mm)	770×170×130
Antenna weight (kg) (with installation kit)	2
Packing weight (kg)	4
Wind loading area (m²)	0.08
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

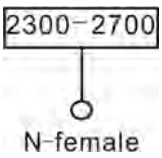


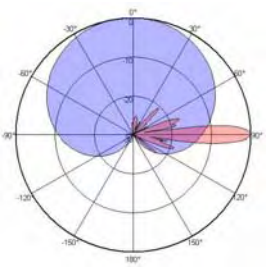
2700MHz

Vpol 2300～2700MHz 90° 17dBi Fixed Tilt 0° Sector Panel Antenna

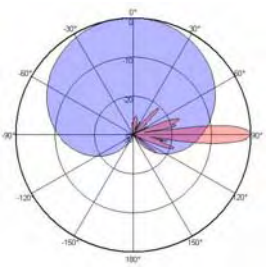
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	16.5	17
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:6	Hor:85 Vert:5.5
Front-to-back ratio (dB)	≥23	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	1110×114×54
Packing size (mm)	1190×170×130
Antenna weight (kg) (with installation kit)	2.6
Packing weight (kg)	4.7
Wind loading area (m²)	0.13
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	ϕ30～ϕ70





2300MHz

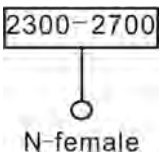


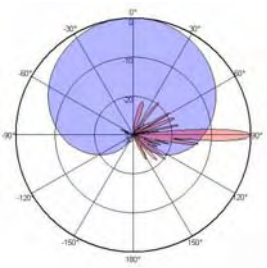
2700MHz

Vpol 2300～2700MHz 90° 18dBi Fixed Tilt 0° Sector Panel Antenna

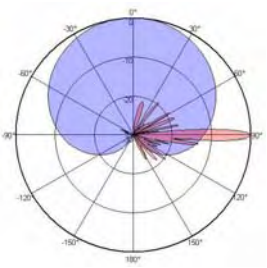
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	17.5	18
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:5	Hor:85 Vert:4.8
Front-to-back ratio (dB)	≥23	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	1320×114×54
Packing size (mm)	1400×170×130
Antenna weight (kg) (with installation kit)	3.2
Packing weight (kg)	5.4
Wind loading area (m²)	0.15
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	ϕ30～ϕ70





2300MHz

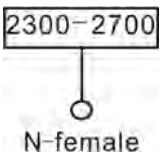


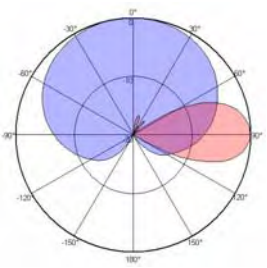
2700MHz

Vpol 2300～2700MHz 120° 9dBi Fixed Tilt 0° Sector Panel Antenna

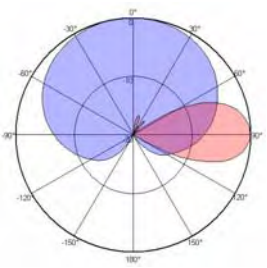
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	8.5	9
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:120 Vert:30	Hor:110 Vert:28
Front-to-back ratio (dB)	≥20	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	220×114×54
Packing size (mm)	300×170×130
Antenna weight (kg) (with installation kit)	1.2
Packing weight (kg)	2.1
Wind loading area (m²)	0.025
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

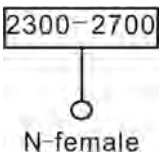


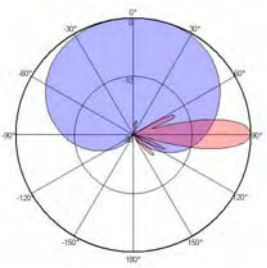
2700MHz

Vpol 2300～2700MHz 120° 12dBi Fixed Tilt 0° Sector Panel Antenna

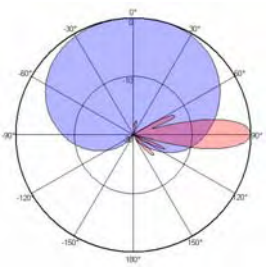
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	11.5	12
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:120 Vert:15	Hor:110 Vert:14
Front-to-back ratio (dB)	≥20	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	430×114×54
Packing size (mm)	510×170×130
Antenna weight (kg) (with installation kit)	1.6
Packing weight (kg)	2.5
Wind loading area (m²)	0.05
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	ϕ30～ϕ70





2300MHz

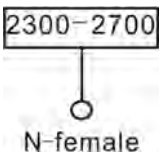


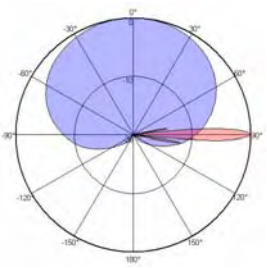
2700MHz

Vpol 2300～2700MHz 120° 15dBi Fixed Tilt 0° Sector Panel Antenna

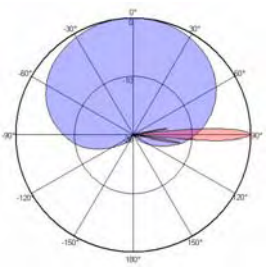
Electrical specifications		
Frequency range (MHz)	2300～2500	2490～2700
Polarization	Ver.	
Gain (dBi)	14.5	15
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:120 Vert:6	Hor:110 Vert:5.5
Front-to-back ratio (dB)	≥20	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	1140×114×54
Packing size (mm)	1190×170×130
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	6.5
Wind loading area (m²)	0.13
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2300MHz

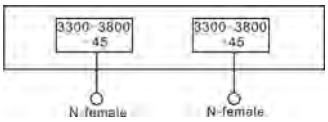


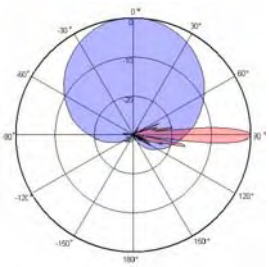
2700MHz

Xpol 3300～3800MHz 65° 18dBi Fixed Tilt 0° Sector Panel Antenna

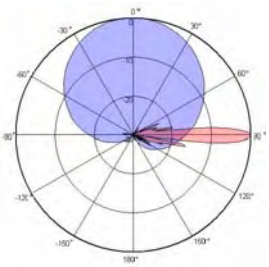
Electrical specifications	
Frequency range (MHz)	3300～3800
Polarization	±45°
Gain (dBi)	18
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	≥18
Front-to-back ratio (dB)	≥25
Isolation (dB)	≥30
Cross-polar ratio (dB)	≥15(±60° ≥10)
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	2×N－female
Connector position	Bottom
Height×width×depth (mm)	780×114×54
Packing size (mm)	870×170×130
Antenna weight (kg) (with installation kit)	4
Packing weight (kg)	4.5
Wind loading area (m²)	0.09
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





3300MHz

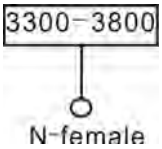


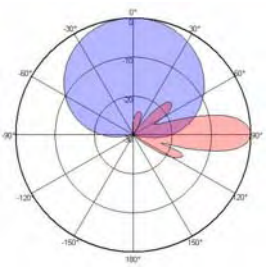
3800MHz

Vpol 3300～3800MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

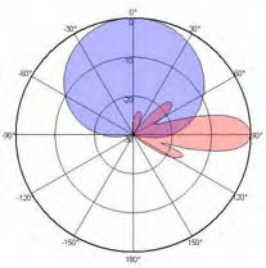
Electrical specifications	
Frequency range (MHz)	3300～3800
Polarization	Ver.
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:15
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	360×114×54
Packing size (mm)	440×170×130
Antenna weight (kg) (with installation kit)	1.6
Packing weight (kg)	2.5
Wind loading area (m²)	0.04
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	ϕ30～ϕ70





3300MHz

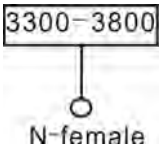


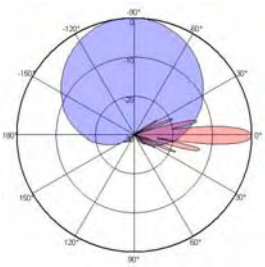
3800MHz

Vpol 3300～3800MHz 65° 17dBi Fixed Tilt 0° Sector Panel Antenna

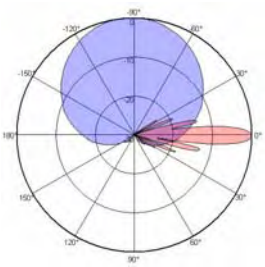
Electrical specifications	
Frequency range (MHz)	3300～3800
Polarization	Ver.
Gain (dBi)	17
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:7.5
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	650×114×54
Packing size (mm)	730×170×130
Antenna weight (kg) (with installation kit)	2.3
Packing weight (kg)	3.4
Wind loading area (m²)	0.07
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





3300MHz

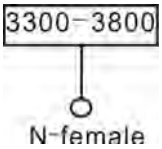


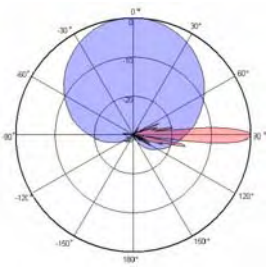
3800MHz

Vpol 3300～3800MHz 65° 18dBi Fixed Tilt 0° Sector Panel Antenna

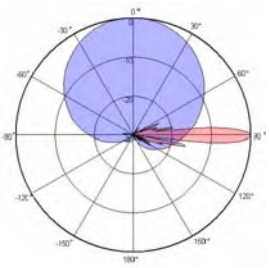
Electrical specifications	
Frequency range (MHz)	3300～3800
Polarization	Ver.
Gain (dBi)	18
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:6
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	800×114×54
Packing size (mm)	880×170×130
Antenna weight (kg) (with installation kit)	3.2
Packing weight (kg)	4
Wind loading area (m²)	0.09
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	ϕ30～ϕ70





3300MHz

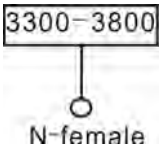


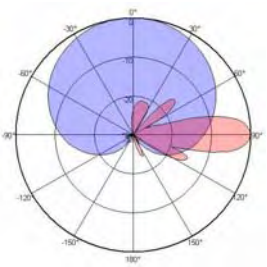
3800MHz

Vpol 3300～3800MHz 90° 14dBi Fixed Tilt 0° Sector Panel Antenna

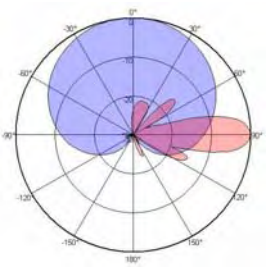
Electrical specifications	
Frequency range (MHz)	3300～3800
Polarization	Ver.
Gain (dBi)	14
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:90 Vert:15
Front-to-back ratio (dB)	≥23
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	360×114×54
Packing size (mm)	440×170×130
Antenna weight (kg) (with installation kit)	1.6
Wind loading area (m²)	0.04
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





3300MHz

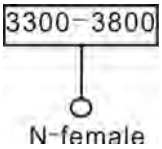


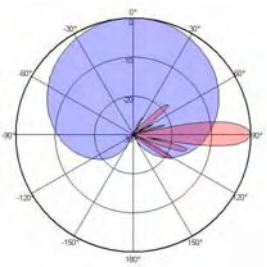
3800MHz

Vpol 3300～3800MHz 90° 15dBi Fixed Tilt 0° Sector Panel Antenna

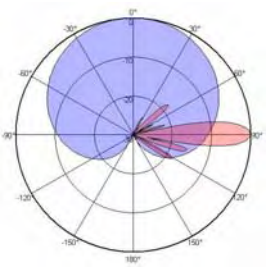
Electrical specifications	
Frequency range (MHz)	3300～3800
Polarization	Ver.
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:90 Vert:10
Front-to-back ratio (dB)	≥23
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	500×114×54
Packing size (mm)	580×170×130
Antenna weight (kg) (with installation kit)	2
Wind loading area (m²)	0.06
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





3300MHz

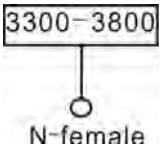


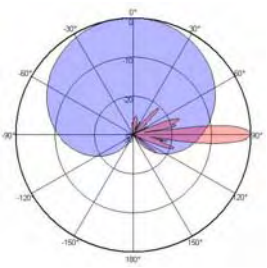
3800MHz

Vpol 3300～3800MHz 90° 17dBi Fixed Tilt 0° Sector Panel Antenna

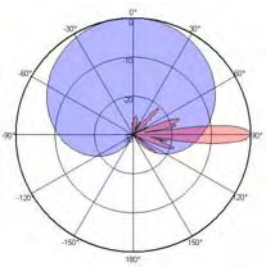
Electrical specifications	
Frequency range (MHz)	3300～3800
Polarization	Ver.
Gain (dBi)	17
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:90 Vert:6
Front-to-back ratio (dB)	≥23
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	790×114×54
Packing size (mm)	870×170×130
Antenna weight (kg) (with installation kit)	2.6
Wind loading area (m²)	0.09
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





3300MHz

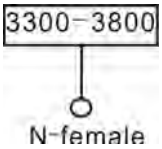


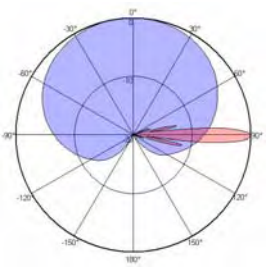
3800MHz

Vpol 3300～3800MHz 120° 14dBi Fixed Tilt 0° Sector Panel Antenna

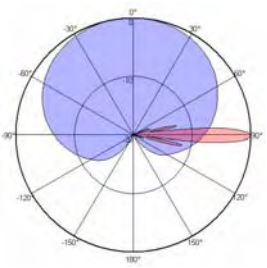
Electrical specifications	
Frequency range (MHz)	3300～3800
Polarization	Ver.
Gain (dBi)	14
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:120 Vert:7
Front-to-back ratio (dB)	≥20
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	680×114×54
Packing size (mm)	760×170×130
Antenna weight (kg) (with installation kit)	2.3
Wind loading area (m²)	0.08
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





3300MHz

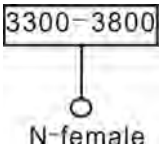


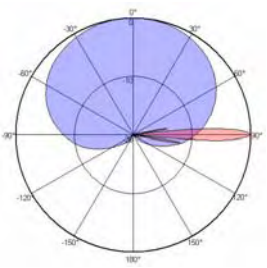
3800MHz

Vpol 3300～3800MHz 120° 15dBi Fixed Tilt 0° Sector Panel Antenna

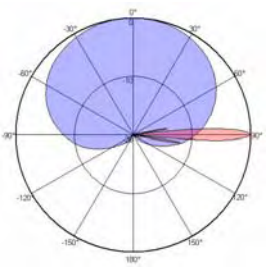
Electrical specifications	
Frequency range (MHz)	3300～3800
Polarization	Ver.
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:120 Vert:6
Front-to-back ratio (dB)	≥20
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×width×depth (mm)	850×114×54
Packing size (mm)	930×170×130
Antenna weight (kg) (with installation kit)	2.6
Wind loading area (m²)	0.1
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





3300MHz

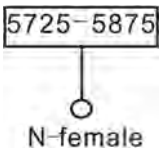


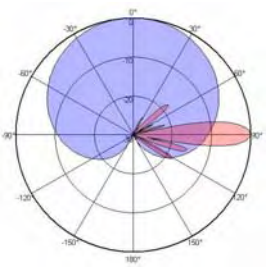
3800MHz

Vpol 5725～5875MHz 90° 15dBi Fixed Tilt 0° Sector Panel Antenna

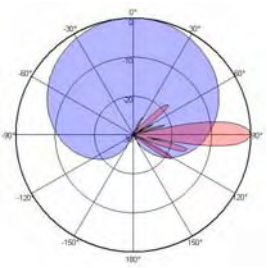
Electrical specifications	
Frequency range (MHz)	5725～5875
Polarization	Ver.
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:90 Vert:10.5
Front-to-back ratio (dB)	≥23
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Back
Height×width×depth (mm)	403×135×28
Packing size (mm)	450×180×180
Antenna weight (kg) (with installation kit)	1.5
Packing weight (kg)	3.4
Wind loading area (m²)	0.05
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	ABS
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





5725MHz

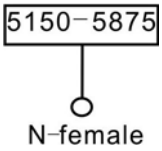


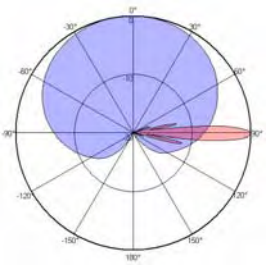
5875MHz

Vpol 5100～5900MHz 120° 16dBi Fixed Tilt 0° Sector Panel Antenna

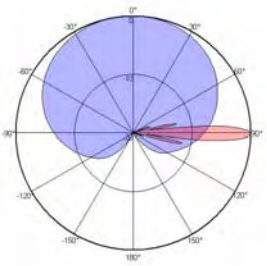
Electrical specifications		
Frequency range (MHz)	5100～5350	5300～5900
Polarization	Ver.	
Gain (dBi)	15.5	16
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:120 Vert:5.5	Hor:110 Vert:5
Front-to-back ratio (dB)	≥20	
Impedance (Ω)	50	
VSWR	≤1.6	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×N－female
Connector position	Back
Height×width×depth (mm)	550×250×20
Packing size (mm)	620×320×100
Antenna weight (kg) (with installation kit)	1.8
Packing weight (kg)	2.8
Wind loading area (m²)	0.14
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV ABS
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





5150MHz

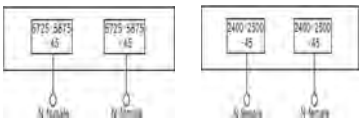


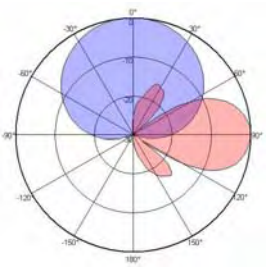
5875MHz

XXpol 2400～2500/5725～5875MHz 65° 12/16dBi Fixed Tilt 0° Sector Panel Antenna

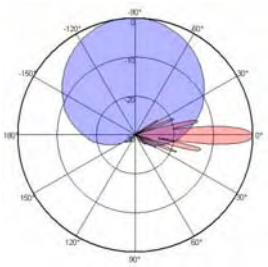
Electrical specifications		
Frequency range (MHz)	2400～2500	5725～5875
Polarization	±45°	
Gain (dBi)	12	16
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:30	Hor:65 Vert:7.5
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	4×N－female
Connector position	Bottom
Height×width×depth (mm)	600×165×56
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	6.8
Wind loading area (m²)	0.1
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2400～2500MHz

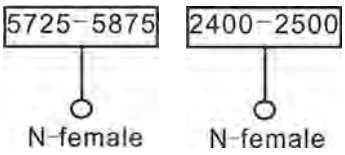


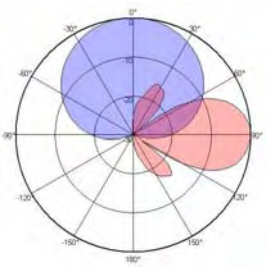
5725～5875MHz

VVpol 2400～2500/5725～5875MHz 65° 12/16dBi Fixed Tilt 0° Sector Panel Antenna

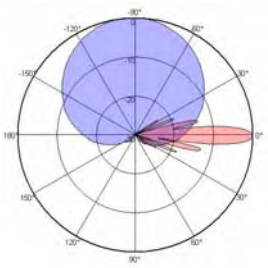
Electrical specifications		
Frequency range (MHz)	2400～2500	5725～5875
Polarization	Ver.	
Gain (dBi)	12	16
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:65 Vert:30	Hor:65 Vert:7.5
Front-to-back ratio (dB)	≥25	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	100W	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	2×N－female
Connector position	Bottom
Height×width×depth (mm)	600×165×56
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	6.8
Wind loading area (m²)	0.1
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ30～φ70





2400～2500MHz



5725～5875MHz

400M…500M, 1.6G

450M Dual Polarization ±45°

Model	Type					Height	Page
TDJ-4509DM-65FT0	XPol	450-470	9dBi	65°	0° T	500	190
TDJ-4512DM-65FT0	XPol	450-470	12dBi	65°	0° T	970	191
TDJ-4515DM-65FT0	XPol	450-495	15dBi	65°	0° T	2000	192
TDJ-4514D-90FT0	XPol	450-470	13.5dBi	90°	0° T	2000	193

450M Circularly Polarized Panel Antenna

TDJ-4309C-LH	LHCP	432-434	8.5dBi	65°	0° T	530	194
TDJ-4309C-RH	RHCP	432-434	8.5dBi	65°	0° T	530	195

450M Single Polarization

TDJ-4509AM-65	VPol	450-470	9dBi	65°	0° T	500	196
TDJ-4512AM-65FT0	VPol	450-470	12dBi	65°	0° T	970	197
TDJ-4515AM-65FT0	VPol	450-470	15dBi	65°	0° T	2000	198
TDJ-4715AM-65FT0	VPol	450-500	15dBi	65°	0° T	2000	199
TDJ-4715AM-65H	HPol	450-500	15dBi	65°	0° T	2000	200
TDJ-4509AM-90	VPol	400-520	9dBi	90°	0° T	1110	201
TDJ-4512AM-90	VPol	400-520	12dBi	90°	0° T	1680	202
TDJ-4514AM-90	VPol	400-520	14dBi	90°	0° T	2200	203

500M

TDJ-5015AM-65H	HPol	520-570	15dBi	65°	0° T	2000	204
TDJ-5015AM-65FT0	VPol	520-570	15dBi	65°	0° T	2000	205
TDJ-5006	XPol	542-582	6dBi	80°	0° T	1900	206

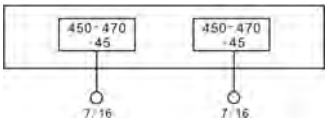
1.6G

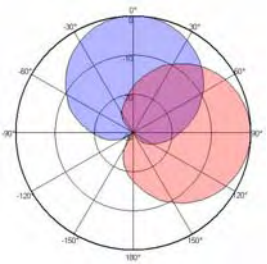
TDJ-1618AM-65PT0	VPol	1625-1661	18dBi	65°	0° T	1450	207

XPol 450～470MHz 65° 9dBi Fixed Tilt 0° Sector Panel Antenna

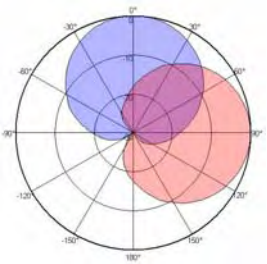
Electrical specifications	
Frequency range (MHz)	450～470
Polarization	±45°
Gain (dBi)	9
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:65
Front-to-back ratio (dB)	≥25
Isolation (dB)	≥30
Cross-polar ratio (dB)	≥15(±60° ≥10)
Impedance (Ω)	50
VSWR	≤1.35
Intermodulation IM5 (2×43dBm carrier)	≤-115
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	500×450×105
Packing size (mm)	600×510×290
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	7
Wind loading area (m²)	0.22
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





450MHz

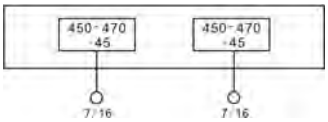


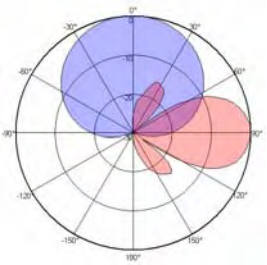
470MHz

XPol 450～470MHz 65° 12dBi Fixed Tilt 0° Sector Panel Antenna

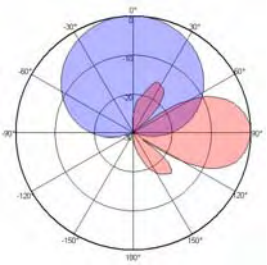
Electrical specifications	
Frequency range (MHz)	450～470
Polarization	±45°
Gain (dBi)	12
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:30
Sidelobe suppression (dB) (First sidelobe above main beam)	≥12
Front-to-back ratio (dB)	≥25
Isolation (dB)	≥30
Cross-polar ratio (dB)	≥15(±60° ≥10)
Impedance (Ω)	50
VSWR	≤1.4
Intermodulation IM3 (2×43dBm carrier)	≤-107(-150dBc)
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	970×450×105
Packing size (mm)	1070×510×290
Antenna weight (kg) (with installation kit)	10
Packing weight (kg)	12
Wind loading area (m²)	0.43
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





450MHz

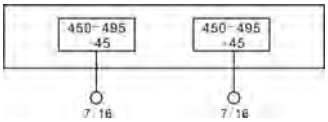


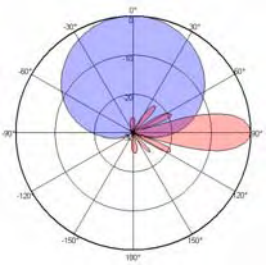
470MHz

XPol 450～495MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

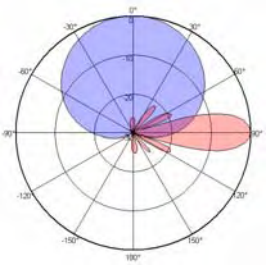
Electrical specifications	
Frequency range (MHz)	450～495
Polarization	±45°
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:17
Sidelobe suppression (dB) (First sidelobe above main beam)	≥18
Front-to-back ratio (dB)	≥25
Isolation (dB)	≥30
Cross-polar ratio (dB)	≥15(±60° ≥10)
Impedance (Ω)	50
VSWR	≤1.4
Intermodulation IM5 (2×43dBm carrier)	≤-115
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2000×450×105
Packing size (mm)	2250×500×240
Antenna weight (kg) (with installation kit)	29
Packing weight (kg)	33.5
Wind loading area (m²)	0.9
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





450MHz

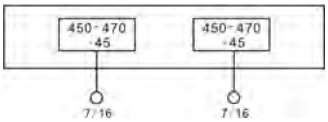


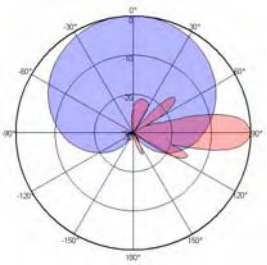
495MHz

XPol 450～470MHz 90° 13.5dBi Fixed Tilt 0° Sector Panel Antenna

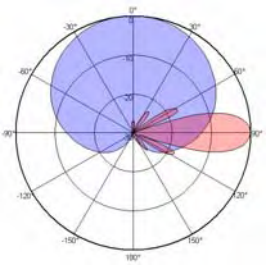
Electrical specifications	
Frequency range (MHz)	450～470
Polarization	±45°
Gain (dBi)	13.5
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:90 Vert:17
Sidelobe suppression (dB) (First sidelobe above main beam)	≥18
Front-to-back ratio (dB)	≥23
Isolation (dB)	≥30
Cross-polar ratio (dB)	≥15(±60° ≥10)
Impedance (Ω)	50
VSWR	≤1.4
Intermodulation IM5 (2×43dBm carrier)	≤-115
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	2×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2000×340×190
Packing size (mm)	2200×435×375
Antenna weight (kg) (with installation kit)	19
Packing weight (kg)	26
Wind loading area (m²)	0.68
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





450MHz

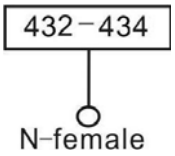


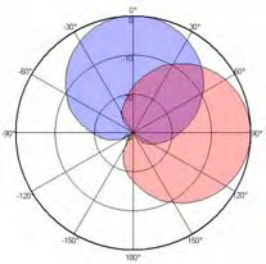
470MHz

432～434MHz 65° Circularly Polarized Panel Antenna

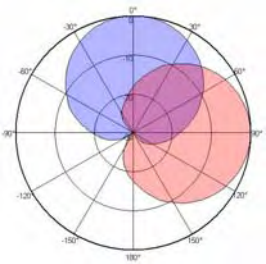
Electrical specifications	
Frequency range (MHz)	432～434
Polarization	LHCP
Gain (dBi)	8.5dBic
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:65
Front-to-back ratio (dB)	≥23
Impedance (Ω)	50
VSWR	≤1.2
Maximum input power (W)	200
Axial ratio	≤3
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×width×depth (mm)	530×516×90
Packing size (mm)	700×600×215
Antenna weight (kg) (with installation kit)	7.6
Packing weight (kg)	10
Wind loading area (m²)	0.27
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





432MHz

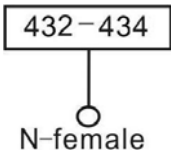


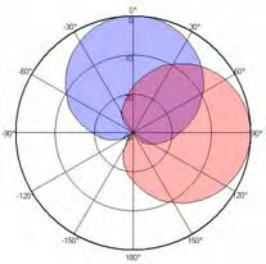
434MHz

432～434MHz 65° Circularly Polarized Panel Antenna

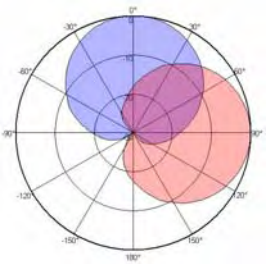
Electrical specifications	
Frequency range (MHz)	432～434
Polarization	RHCP
Gain (dBi)	8.5dBic
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:65
Front-to-back ratio (dB)	≥23
Impedance (Ω)	50
VSWR	≤1.2
Maximum input power (W)	200
Axial ratio	≤3
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×width×depth (mm)	530×516×90
Packing size (mm)	700×600×215
Antenna weight (kg) (with installation kit)	7.6
Packing weight (kg)	10
Wind loading area (m²)	0.27
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～ φ115





432MHz

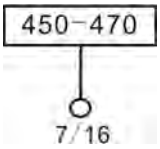


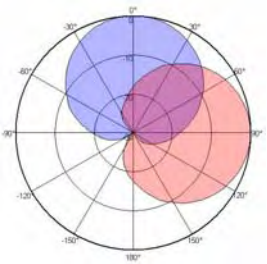
434MHz

VPol 450～470MHz 65° 9dBi Fixed Tilt 0° Sector Panel Antenna

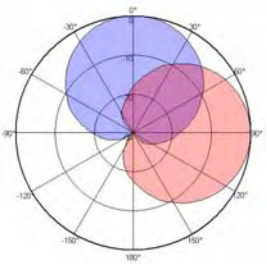
Electrical specifications	
Frequency range (MHz)	450～470
Polarization	Vertical
Gain (dBi)	9
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:65
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.35
Intermodulation IM5 (2×43dBm carrier)	≤-115
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	500×450×105
Packing size (mm)	600×510×290
Antenna weight (kg) (with installation kit)	5
Packing weight (kg)	7
Wind loading area (m²)	0.22
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





450MHz

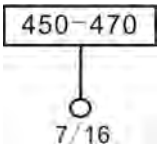


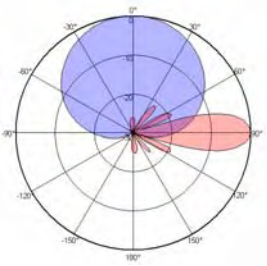
470MHz

VPol 450～470MHz 65° 12dBi Fixed Tilt 0° Sector Panel Antenna

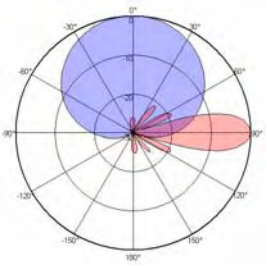
Electrical specifications	
Frequency range (MHz)	450～470
Polarization	Vvertical
Gain (dBi)	12
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:30
Sidelobe suppression (dB) (First sidelobe above main beam)	≥12
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.4
Intermodulation IM5 (2×43dBm carrier)	≤-115
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	970×450×105
Packing size (mm)	1070×510×290
Antenna weight (kg) (with installation kit)	10
Packing weight (kg)	12
Wind loading area (m²)	0.43
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





450MHz

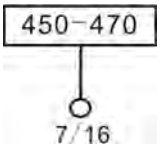


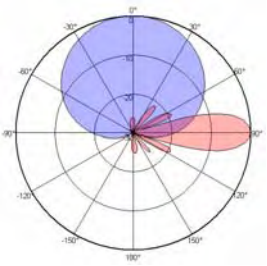
470MHz

VPol 450～470MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

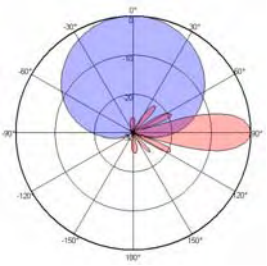
Electrical specifications	
Frequency range (MHz)	450～470
Polarization	Vvertical
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:17
Sidelobe suppression (dB) (First sidelobe above main beam)	≥18
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.35
Intermodulation IM5 (2×43dBm carrier)	≤-115
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2000×450×105
Packing size (mm)	2250×500×240
Antenna weight (kg) (with installation kit)	28
Packing weight (kg)	33.5
Wind loading area (m²)	0.9
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





450MHz

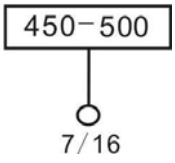


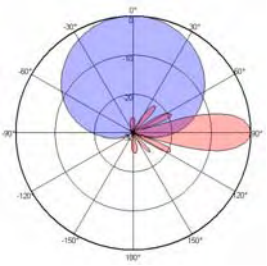
470MHz

VPol 450～500MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

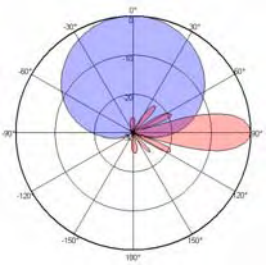
Electrical specifications	
Frequency range (MHz)	450～500
Polarization	Vvertical
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:17
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.4
Intermodulation IM5 (2×43dBm carrier)	≤-107
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2000×450×105
Packing size (mm)	2250×500×240
Antenna weight (kg) (with installation kit)	26
Packing weight (kg)	33
Wind loading area (m²)	0.9
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





450MHz

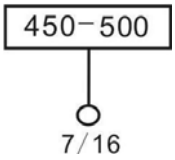


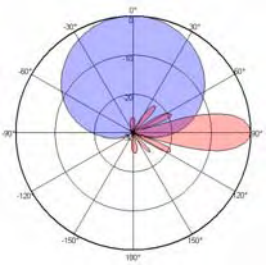
500MHz

HPol 450～500MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

Electrical specifications	
Frequency range (MHz)	450～500
Polarization	Horizontal
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:17
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.4
Intermodulation IM5 (2×43dBm carrier)	≤-107
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2000×450×105
Packing size (mm)	2250×500×240
Antenna weight (kg) (with installation kit)	26
Packing weight (kg)	33
Wind loading area (m²)	0.9
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





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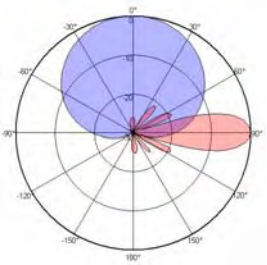
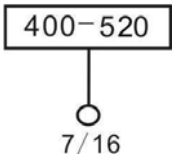


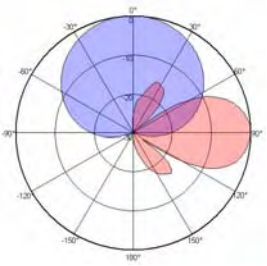
500MHz

VPol 400～520MHz 90° 9dBi Fixed Tilt 0° Sector Panel Antenna

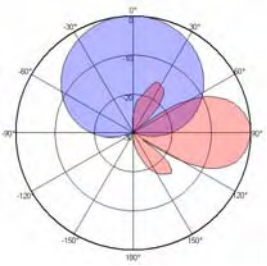
Electrical specifications		
Frequency range (MHz)	400～460	460～520
Polarization	Vertical	
Gain (dBi)	8.5(6.4dBd)	9.5(7.4dBd)
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:35	Hor:85 Vert:33
Front-to-back ratio (dB)	≥18	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1110×280×138
Packing size (mm)	1500×370×225
Antenna weight (kg) (with installation kit)	12.7
Packing weight (kg)	15.1
Wind loading area (m²)	0.34
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





400～460MHz

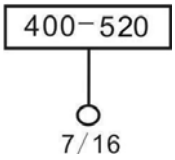


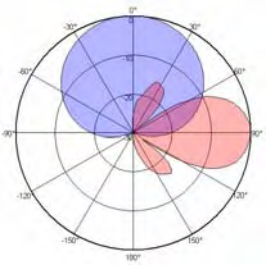
460～520MHz

VPol 400～520MHz 90° 12dBi Fixed Tilt 0 ° Sector Panel Antenna

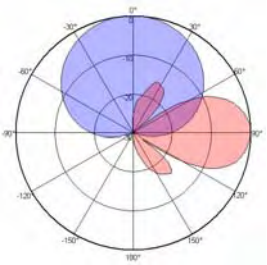
Electrical specifications		
Frequency range (MHz)	400～460	460～520
Polarization	Vertical	
Gain (dBi)	11.5(9.4dBd)	12(10dBd)
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:90 Vert:23	Hor:85 Vert:20
Front-to-back ratio (dB)	≥18	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc	
Maximum input power (W)	500	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	1680×280×138
Packing size (mm)	1780×500×225
Antenna weight (kg) (with installation kit)	15.7
Packing weight (kg)	19
Wind loading area (m²)	0.47
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





400～460MHz

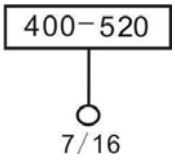


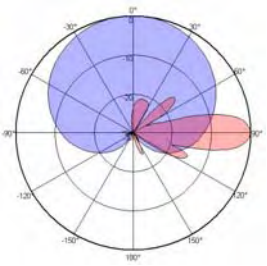
460～520MHz

VPol 400～520MHz 90° 14dBi Fixed Tilt 0° Sector Panel Antenna

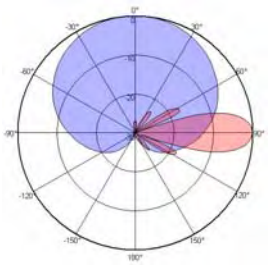
Electrical specifications	
Frequency range (MHz)	400～520
Polarization	Vertical
Gain (dBi)	14(12dBd)
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:90 Vert:17
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16
Front-to-back ratio (dB)	≥18
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-107(-150dBc)
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2200×280×85
Packing size (mm)	2300×500×240
Antenna weight (kg) (with installation kit)	20
Packing weight (kg)	24
Wind loading area (m²)	0.62
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





400MHz

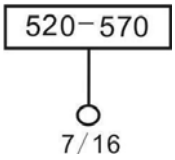


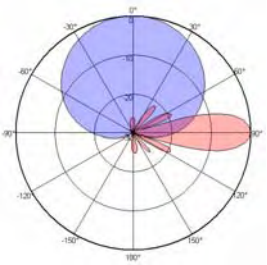
520MHz

HPol 520～570MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

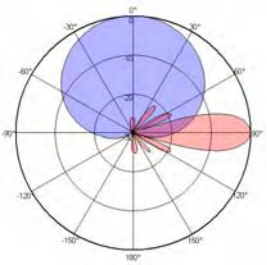
Electrical specifications	
Frequency range (MHz)	520～570
Polarization	Horizontal
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:17
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.4
Intermodulation IM5 (2×43dBm carrier)	≤-107
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2000×450×105
Packing size (mm)	2250×500×240
Antenna weight (kg) (with installation kit)	26
Packing weight (kg)	33
Wind loading area (m²)	0.9
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





520MHz

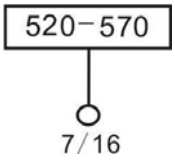


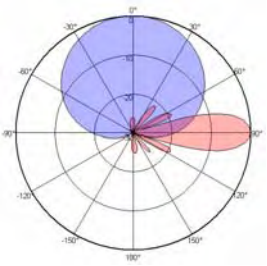
570MHz

VPol 520～570MHz 65° 15dBi Fixed Tilt 0° Sector Panel Antenna

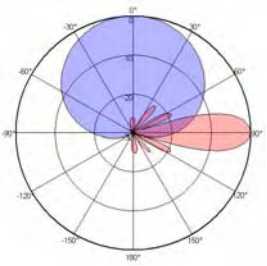
Electrical specifications	
Frequency range (MHz)	520～570
Polarization	Vertical
Gain (dBi)	15
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:17
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.4
Intermodulation IM5 (2×43dBm carrier)	≤-107
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×width×depth (mm)	2000×450×105
Packing size (mm)	2250×500×240
Antenna weight (kg) (with installation kit)	26
Packing weight (kg)	33
Wind loading area (m²)	0.9
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





520MHz

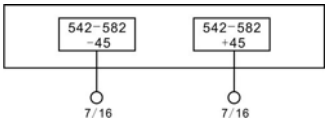


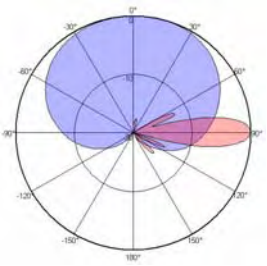
570MHz

XPol 542～582MHz 80° 6dBi Fixed Tilt 0° Sector Panel Antenna

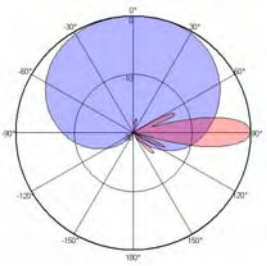
Electrical specifications	
Frequency range (MHz)	542～582
Polarization	±45°
Gain (dBi)	6
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:80 Vert:65
Sidelobe suppression (dB) (First sidelobe above main beam)	≥16
Front-to-back ratio (dB)	≥25
Isolation (dB)	≥23
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×width×depth (mm)	1900×370×85
Packing size (mm)	2090×460×230
Antenna weight (kg) (with installation kit)	20.5
Packing weight (kg)	23.5
Wind loading area (m²)	0.54
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





542MHz

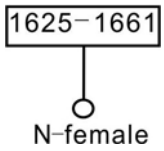


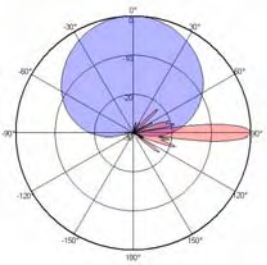
582MHz

VPol 1625～1661MHz 65° 18dBi Fixed Tilt 0° Sector Panel Antenna

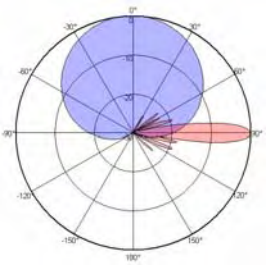
Electrical specifications	
Frequency range (MHz)	1625～1661
Polarization	Vertical
Gain (dBi)	18
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:65 Vert:7
Sidelobe suppression (dB) (First sidelobe above main beam)	≥15
Front-to-back ratio (dB)	≥25
Impedance (Ω)	50
VSWR	≤1.4
Maximum input power (W)	300
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×width×depth (mm)	1450×160×65
Packing size (mm)	1610×230×180
Antenna weight (kg) (with installation kit)	8.5
Packing weight (kg)	12.5
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Reflector material	Aluminum Alloy
Radome material	UV PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





1625MHz



1661MHz

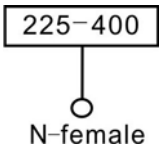
Omni Antennas

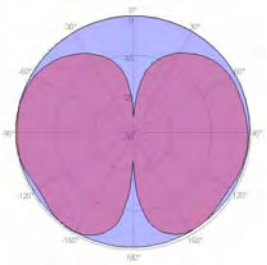
Model	Type					Height	Page
TQJ-22402T0	VPol	225-400	2dBi	360°	0° T	1120	210
TQJ-4008	VPol	380-400	8dBi	360°	0° T	3560	211
TQJ-4508	VPol	450-470	8dBi	360°	0° T	2220	212
TQJ-8002T0	VPol	806-896	2dBi	360°	0° T	400	213
TQJ-8011T0	VPol	824-896	11dBi	360°	0° T	3560	214
TQJ-9005T0	VPol	870-960	5dBi	360°	0° T	650	215
TQJ-9011T0	VPol	870-960	11dBi	360°	0° T	3560	216
TQJ-1407	VPol	1355-1500	7dBi	360°	0° T	1000	217
TQJ-1410	VPol	1355-1500	10dBi	360°	0° T	2100	218
TQJ-1804	VPol	1780-1800	4.5dBi	360°	0° T	360	219
TQJ-1811Tx	VPol	1710-1880	11dBi	360°	X(0,3,6,10)	1800	220
TQJ-1909Tx	VPol	1890-1920	9dBi	360°	X(0,5,10,20)	880	221
TQJ-1912Tx	VPol	1890-1920	12dBi	360°	X(0,5,10,20)	1500	222
TQJ-181911T0	VPol	1710-1990	11dBi	360°	0° T	1800	223
TQJ-192011T0	VPol	1850-2170	11dBi	360°	0° T	1500	224
TQJ-2406	VPol	2400-2500	6dBi	360°	0° T	380	225
TQJ-2610T6	VPol	2500-2700	10dBi	360°	6° T	1080	226
TQJ-232410T0	VPol	2300-2400	10dBi	360°	0° T	1050	227
TQJ-232510T0	VPol	2300-2500	10dBi	360°	0° T	1420	228
TQJ-242512T0	VPol	2400-2500	12dBi	360°	0° T	1200	229
TQJ-252710T0	VPol	2500-2700	10dBi	360°	0° T	1280	230
TQJ-3310T6	VPol	3300-3400	10dBi	360°	6° T	910	231
TQJ-3510T0	VPol	3400-3600	10dBi	360°	0° T	880	232
TQJ-3710T6	VPol	3600-3800	10dBi	360°	6° T	910	233
TQJ-343611T0	VPol	3400-3600	11dBi	360°	0° T	1100	234
TQJ-363707T0	VPol	3600-3700	7dBi	360°	0° T	450	235
TQJ-575911	VPol	5725-5875	11dBi	360°	0° T	700	236

VPol 225～400MHz 360° 2dBi Fixed Tilt 0° Omni Antenna

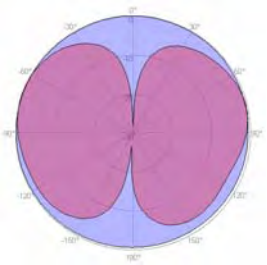
Electrical specifications	
Frequency range (MHz)	225～400
Polarization	Vertical
Gain (dBi)	2
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:50
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤2
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×Diameter (mm)	1120×φ124
Antenna weight (kg) (with installation kit)	5.5
Packing weight (kg)	8.5
Wind loading area (m²)	0.15
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





225MHz

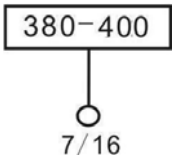


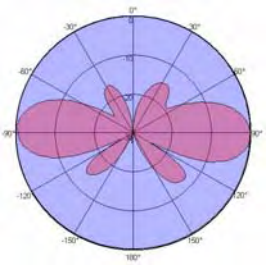
400MHz

VPol 380～400MHz 360° 8dBi Fixed Tilt 0° Omni Antenna

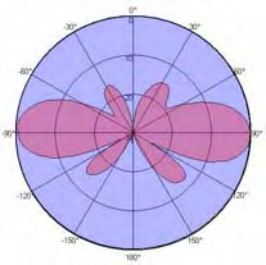
Electrical specifications	
Frequency range (MHz)	380～400
Polarization	Vertical
Gain (dBi)	8
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:12
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	3560×φ65
Packing size (mm)	3800×105
Antenna weight (kg) (with installation kit)	5.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.23
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





380MHz

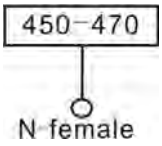


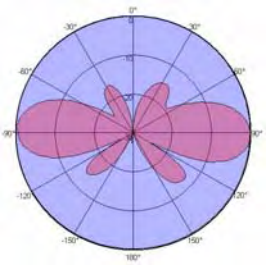
400MHz

VPol 450～470MHz 360° 8dBi Fixed Tilt 0° Omni Antenna

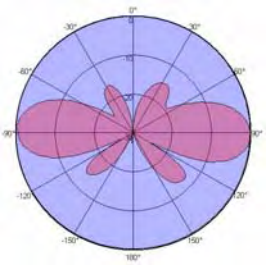
Electrical specifications	
Frequency range (MHz)	450～470
Polarization	Vertical
Gain (dBi)	8
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:12
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×Diameter (mm)	2220×φ29
Packing size (mm)	2800×50
Antenna weight (kg) (with installation kit)	4.5
Packing weight (kg)	6.25
Wind loading area (m²)	0.68
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ30～φ70





450MHz

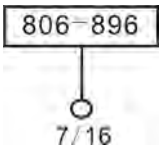


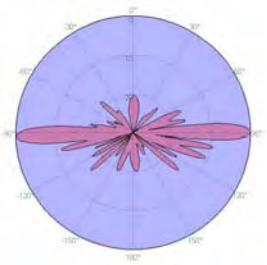
470MHz

VPol 806～896MHz 360° 2dBi Fixed Tilt 0° Omni Antenna

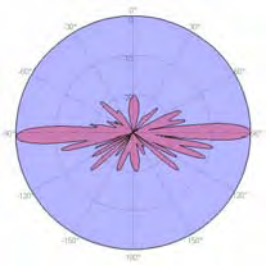
Electrical specifications	
Frequency range (MHz)	806～896
Polarization	Vertical
Gain (dBi)	2
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:70
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	400×φ65
Antenna weight (kg) (with installation kit)	1.5
Packing weight (kg)	5.5
Wind loading area (m²)	0.05
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





806MHz

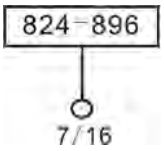


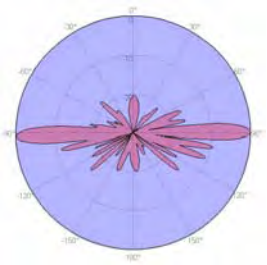
896MHz

VPol 824～896MHz 360° 11dBi Fixed Tilt 0° Omni Antenna

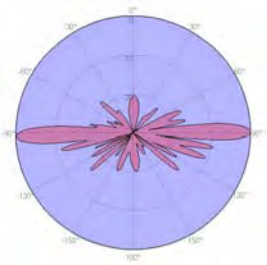
Electrical specifications	
Frequency range (MHz)	824～896
Polarization	Vertical
Gain (dBi)	11
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:7.5
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	3560×φ65
Antenna weight (kg) (with installation kit)	7.5
Packing weight (kg)	12.5
Wind loading area (m²)	0.25
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





824MHz

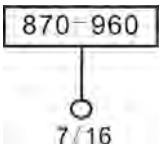


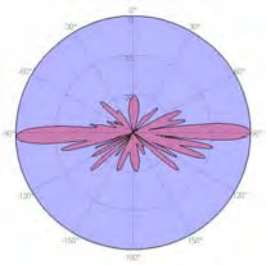
896MHz

VPol 870～960MHz 360° 5dBi Fixed Tilt 0° Omni Antenna

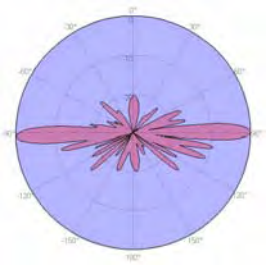
Electrical specifications	
Frequency range (MHz)	870～960
Polarization	Vertical
Gain (dBi)	5
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:32
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-140dBc
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	650×φ65
Antenna weight (kg) (with installation kit)	2.5
Packing weight (kg)	7.5
Wind loading area (m²)	0.1
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





870MHz

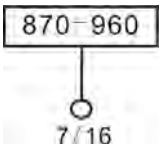


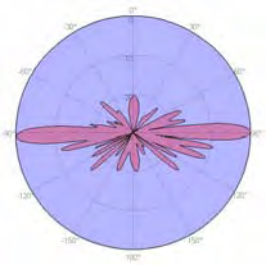
960MHz

VPol 870～960MHz 360° 11dBi Fixed Tilt 0° Omni Antenna

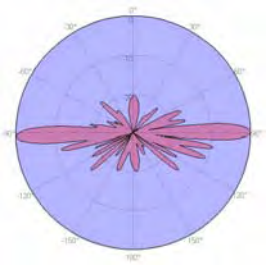
Electrical specifications	
Frequency range (MHz)	870～960
Polarization	Vertical
Gain (dBi)	11
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:7.5
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc
Maximum input power (W)	500
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	3560×φ65
Antenna weight (kg) (with installation kit)	7.5
Packing weight (kg)	12.5
Wind loading area (m²)	0.25
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





870MHz

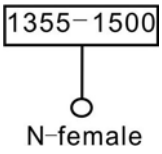


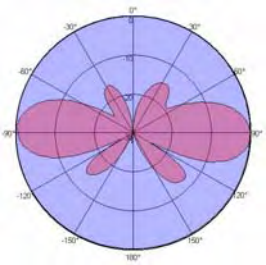
960MHz

VPol 1355～1500MHz 360° 7dBi Fixed Tilt 0° Omni Antenna

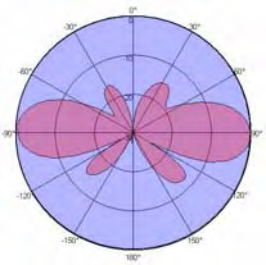
Electrical specifications	
Frequency range (MHz)	1355～1500
Polarization	Vertical
Gain (dBi)	7
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:18
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	300
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×Diameter (mm)	1000×φ76
Packing size (mm)	1250×210×160
Antenna weight (kg) (with installation kit)	5.5
Packing weight (kg)	8.5
Wind loading area (m²)	0.1
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





1355MHz

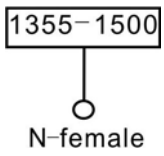


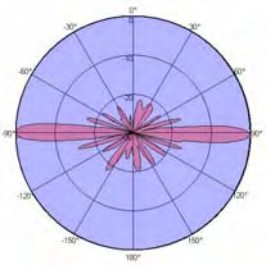
1500MHz

VPol 1355～1500MHz 360° 10dBi Fixed Tilt 0° Omni Antenna

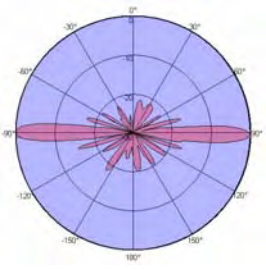
Electrical specifications	
Frequency range (MHz)	1355～1500
Polarization	Vertical
Gain (dBi)	10
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:7
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	300
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female
Connector position	Bottom
Height×Diameter (mm)	2100×φ76
Packing size (mm)	2250×210×160
Antenna weight (kg) (with installation kit)	9.5
Packing weight (kg)	12.5
Wind loading area (m²)	0.2
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





1355MHz

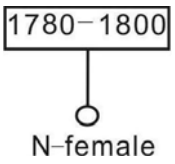


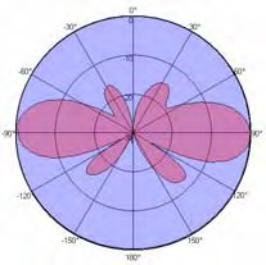
1500MHz

VPol 1780～1800MHz 360° 4.5dBi Fixed Tilt 0° Omni Antenna

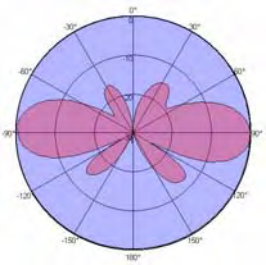
Electrical specifications	
Frequency range (MHz)	1780～1800
Polarization	Vertical
Gain (dBi)	4.5
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:40
Circularity (dB)	±0.5
Impedance (Ω)	50
VSWR	≤1.4
Maximum input power (W)	100
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female With Cable 7D-FB of 300mm length
Connector position	Bottom
Height×Diameter (mm)	360×φ20
Packing size (mm)	550×280×240
Antenna weight (kg) (with installation kit)	0.3
Packing weight (kg)	7.5(20pcs)
Wind loading area (m²)	0.01
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ20～φ50





1780MHz

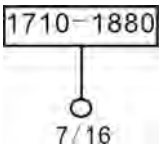


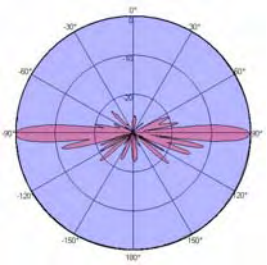
1800MHz

VPol 1710～1880MHz 360° 11dBi Fixed Tilt x Omni Antenna

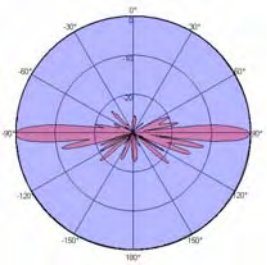
Electrical specifications	
Frequency range (MHz)	1710～1880
Polarization	Vertical
Gain (dBi)	11
Electrical downtilt (°)	X(0,3,6,10)
Half-power beam width (°)	Hor:360 Vert:6.5
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	300
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	1800×φ65
Antenna weight (kg) (with installation kit)	6.5
Packing weight (kg)	10.5
Wind loading area (m²)	0.16
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





1710MHz

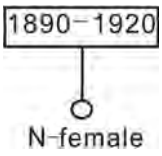


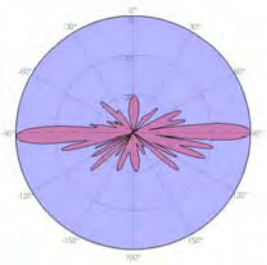
1880MHz

VPol 1890～1920MHz 360° 9dBi Fixed Tilt x Omni Antenna

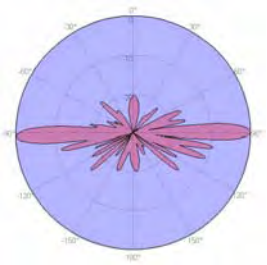
Electrical specifications	
Frequency range (MHz)	1890～1920
Polarization	Vertical
Gain (dBi)	9
Electrical downtilt (°)	X(0,5,10,20)
Half-power beam width (°)	Hor:360 Vert:12
Circularity (dB)	±0.5
Impedance (Ω)	50
VSWR	≤1.4
Maximum input power (W)	100
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female With Cable 7D-FB of 300mm length
Connector position	Bottom
Height×Diameter (mm)	880×φ20
Packing size (mm)	1050×315×50
Antenna weight (kg) (with installation kit)	1.2
Packing weight (kg)	5.5(4pcs)
Wind loading area (m²)	0.16
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ20～φ50





1890MHz

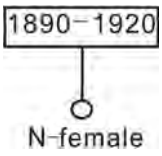


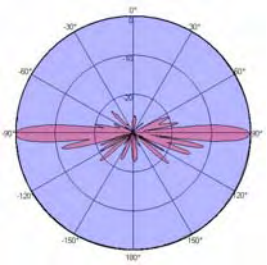
1920MHz

VPol 1890～1920MHz 360° 12dBi Fixed Tilt x Omni Antenna

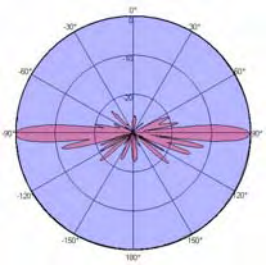
Electrical specifications	
Frequency range (MHz)	1890～1920
Polarization	Vertical
Gain (dBi)	12
Electrical downtilt (°)	X(0,5,10,20)
Half-power beam width (°)	Hor:360 Vert:5.5
Circularity (dB)	±0.5
Impedance (Ω)	50
VSWR	≤1.4
Maximum input power (W)	100
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N-Female With Cable 7D-FB of 300mm length
Connector position	Bottom
Height×Diameter (mm)	1500×φ20
Packing size Height×Diameter (mm)	1660×φ50
Antenna weight (kg) (with installation kit)	1.5
Packing weight (kg)	1.8
Wind loading area (m²)	0.12
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ20～φ50





1890MHz

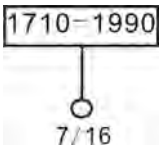


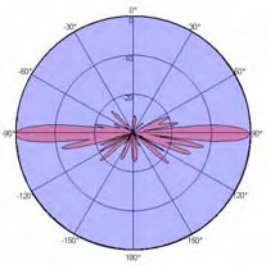
1920MHz

VPol 1710～1990MHz 360° 11dBi Fixed Tilt 0° Omni Antenna

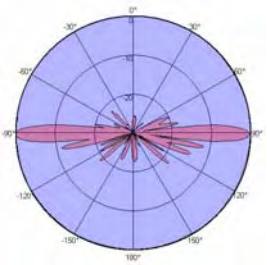
Electrical specifications		
Frequency range (MHz)	1710～1880	1850～1990
Polarization	Vertical	
Gain (dBi)	10.5	11
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:360 Vert:7	Hor:360 Vert:6.5
Circularity (dB)	±0.5	
Impedance (Ω)	50	
VSWR	≤1.5	
Maximum input power (W)	100	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	1800×φ65
Packing size Height×Diameter (mm)	2060×φ85
Antenna weight (kg) (with installation kit)	4.3
Packing weight (kg)	8.5
Wind loading area (m²)	0.12
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	φ50～φ115





1710～1880MHz

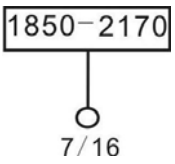


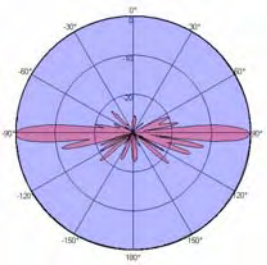
1850～1990MHz

VPol 1850～2170MHz 360° 11dBi Fixed Tilt 0° Omni Antenna

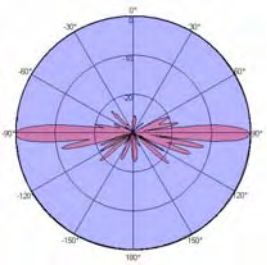
Electrical specifications		
Frequency range (MHz)	1850～1990	1920～2170
Polarization	Vertical	
Gain (dBi)	10.5	11
Electrical downtilt (°)	0	0
Half-power beam width (°)	Hor:360 Vert:7	Hor:360 Vert:6.5
Circularity (dB)	±1	
Impedance (Ω)	50	
VSWR	≤1.5	
Maximum input power (W)	300	
Lightning protection	DC Ground	

Mechanical specifications	
Connector	1×7/16DIN-Female
Connector position	Bottom
Height×Diameter (mm)	1500×φ50
Packing size (mm)	1600×φ110
Antenna weight (kg) (with installation kit)	5.5
Packing weight (kg)	9.5
Wind loading area (m²)	0.08
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-50～65
Mounting hardware (mm)	Φ50～Φ115





1850～1990MHz

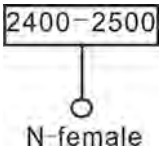


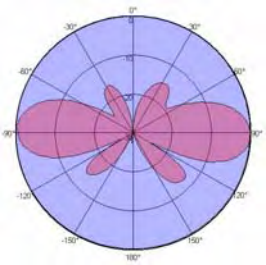
1920～2170MHz

Vpol 2400～2500MHz 360° 6dBi Fixed Tilt 0° Omni Antenna

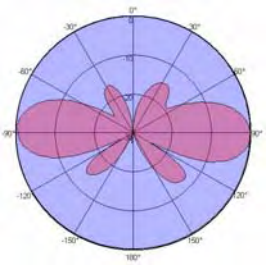
Electrical specifications	
Frequency range (MHz)	2400～2500
Polarization	Ver.
Gain (dBi)	6
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:22
Circularity (dB)	± 0.5
Impedance (Ω)	50
VSWR	≤1.4
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	380×φ20
Packing size (mm)	550×280×240（20pcs）
Antenna weight (kg) (with installation kit)	0.3
Packing weight (kg)	6.2
Wind loading area (m²)	0.01
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ20～φ55





2400MHz

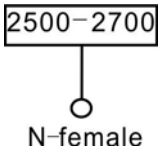


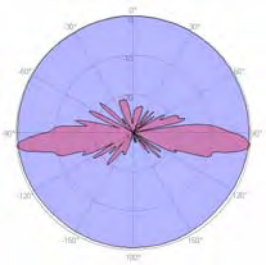
2500MHz

Vpol 2500～2700MHz 360° 10dBi Fixed Tilt 6° Omni Antenna

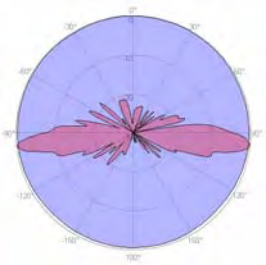
Electrical specifications	
Frequency range (MHz)	2500～2700
Polarization	Ver.
Gain (dBi)	9.5
Electrical downtilt (°)	6
Half-power beam width (°)	Hor:360 Vert:6.5
Circularity (dB)	± 0.5
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	1080×φ20
Packing size (mm)	1190×145×105+255×205×105(10pcs)
Antenna weight (kg) (with installation kit)	1.5
Packing weight (kg)	15(10PCS)
Wind loading area (m²)	0.022
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ50～φ115





2500MHz

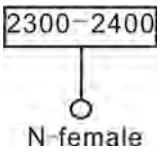


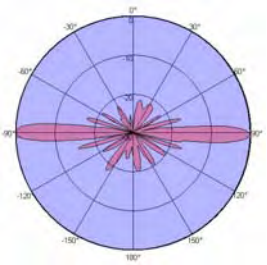
2700MHz

Vpol 2300～2400MHz 360° 10dBi Fixed Tilt 0° Omni Antenna

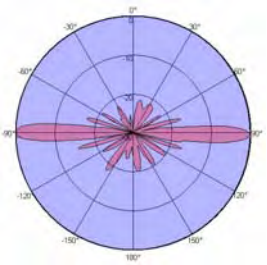
Electrical specifications	
Frequency range (MHz)	2300～2400
Polarization	Ver.
Gain (dBi)	10
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:10
Circularity (dB)	± 0.5
Impedance (Ω)	50
VSWR	≤1.4
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	1050×φ29
Packing size (mm)	1160×205×45（4pcs）
Antenna weight (kg) (with installation kit)	0.95
Packing weight (kg)	4
Wind loading area (m²)	0.03
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ20～φ55





2300MHz

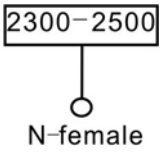


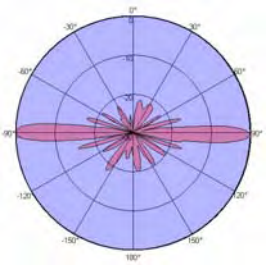
2400MHz

Vpol 2300～2500MHz 360° 10dBi Fixed Tilt 0° Omni Antenna

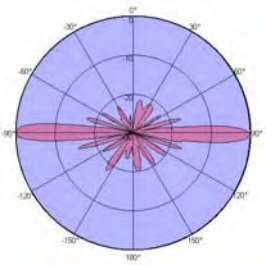
Electrical specifications	
Frequency range (MHz)	2300～2500
Polarization	Ver.
Gain (dBi)	10
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:6.5
Circularity (dB)	± 1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	1420×φ20
Antenna weight (kg) (with installation kit)	0.68
Packing weight (kg)	4
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





2300MHz

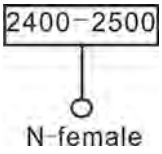


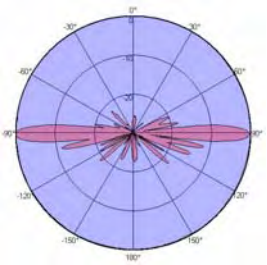
2500MHz

Vpol 2400～2500MHz 360° 12dBi Fixed Tilt 0° Omni Antenna

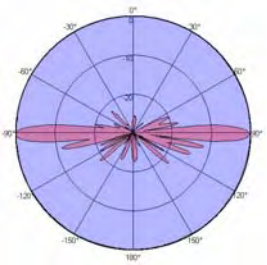
Electrical specifications	
Frequency range (MHz)	2400～2500
Polarization	Ver.
Gain (dBi)	12
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:5.5
Circularity (dB)	±0.5
Impedance (Ω)	50
VSWR	≤1.4
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	1200×φ29
Packing size (mm)	1315×220×225
Antenna weight (kg) (with installation kit)	0.7
Packing weight (kg)	0.9
Wind loading area (m²)	0.04
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ20～φ55





2400MHz

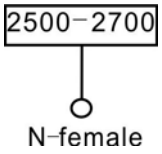


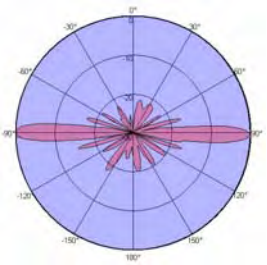
2500MHz

Vpol 2500～2700MHz 360° 10dBi Fixed Tilt 0° Omni Antenna

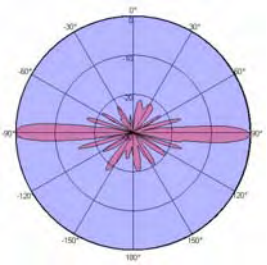
Electrical specifications	
Frequency range (MHz)	2500～2700
Polarization	Ver.
Gain (dBi)	10
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:6.5
Circularity (dB)	±0.5
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	1280×φ20
Antenna weight (kg) (with installation kit)	0.65
Packing weight (kg)	4
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





2500MHz

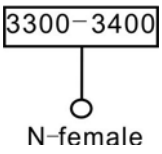


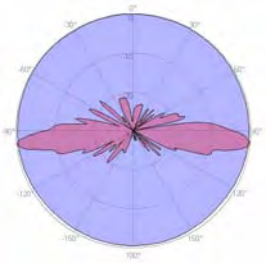
2700MHz

Vpol 3300～3400MHz 360° 10dBi Fixed Tilt 6° Omni Antenna

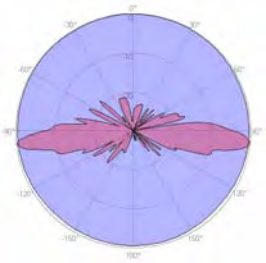
Electrical specifications	
Frequency range (MHz)	3300～3400
Polarization	Ver.
Gain (dBi)	10
Electrical downtilt (°)	6
Half-power beam width (°)	Hor:360 Vert:6.5
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	910×φ20
Antenna weight (kg) (with installation kit)	0.54
Wind loading area (m²)	0.018
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ18～φ36





3300MHz

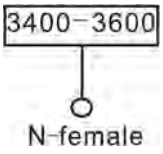


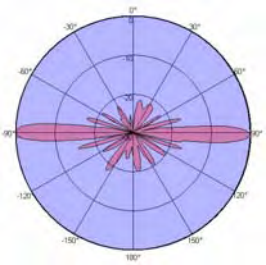
3400MHz

Vpol 3400～3600MHz 360° 10dBi Fixed Tilt 0° Omni Antenna

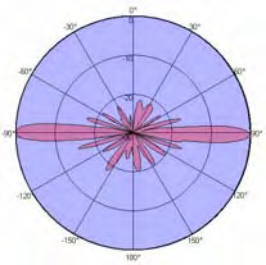
Electrical specifications	
Frequency range (MHz)	3400～3600
Polarization	Ver.
Gain (dBi)	10
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:6.5
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	880×φ25
Packing size (mm)	1050×315×50（4pcs）
Antenna weight (kg) (with installation kit)	1
Wind loading area (m²)	0.02
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ18～φ36





3400MHz

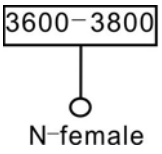


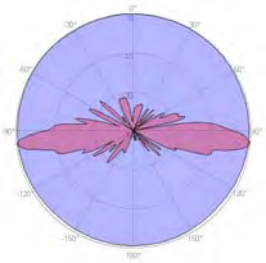
3600MHz

Vpol 3600～3800MHz 360° 10dBi Fixed Tilt 6° Omni Antenna

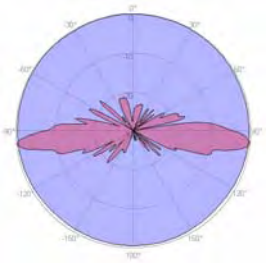
Electrical specifications	
Frequency range (MHz)	3600～3800
Polarization	Ver.
Gain (dBi)	10
Electrical downtilt (°)	6
Half-power beam width (°)	Hor:360 Vert:6.5
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	910×φ20
Antenna weight (kg) (with installation kit)	0.5
Wind loading area (m²)	0.018
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ18～φ36





3600MHz

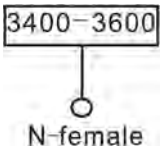


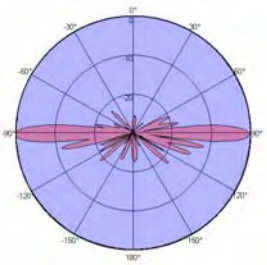
3800MHz

Vpol 3400～3600MHz 360° 11dBi Fixed Tilt 0° Omni Antenna

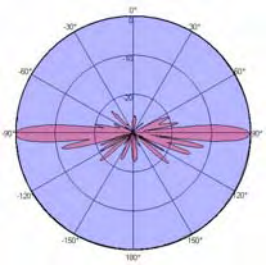
Electrical specifications	
Frequency range (MHz)	3400～3600
Polarization	Ver.
Gain (dBi)	11
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:5.5
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	1100×φ25
Packing size (mm)	1315×220×225
Antenna weight (kg) (with installation kit)	1
Wind loading area (m²)	0.025
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ18～φ36





3400MHz

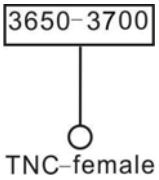


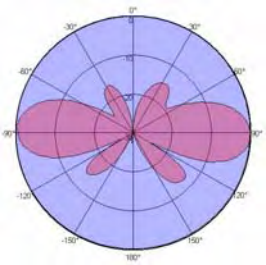
3600MHz

Vpol 3600～3700MHz 360° 7dBi Fixed Tilt 0° Omni Antenna

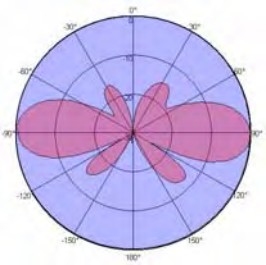
Electrical specifications	
Frequency range (MHz)	3600～3700
Polarization	Ver.
Gain (dBi)	7
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:17
Circularity (dB)	±0.5
Impedance (Ω)	50
VSWR	≤1.5
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×TNC－female
Connector position	Bottom
Height×Diameter (mm)	450×φ20
Antenna weight (kg) (with installation kit)	0.5
Packing weight (kg)	1
Wind loading area (m²)	0.01
Rated wind velocity (m/s)	60
Radome material	Fiberglass
Radome color	Gray
Operating temperature (℃)	-40～60
Mounting hardware (mm)	Φ50～Φ115





3650MHz

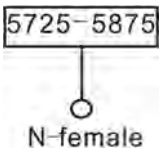


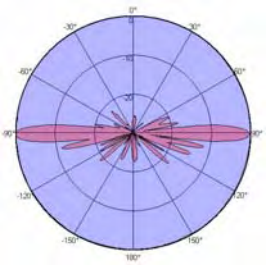
3700MHz

Vpol 5725～5875MHz 360° 11dBi Fixed Tilt 0° Omni Antenna

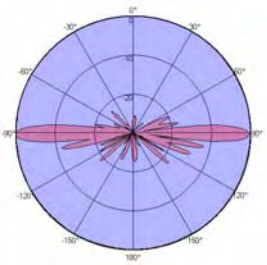
Electrical specifications	
Frequency range (MHz)	5725～5875
Polarization	Ver.
Gain (dBi)	11
Electrical downtilt (°)	0
Half-power beam width (°)	Hor:360 Vert:7
Circularity (dB)	±1
Impedance (Ω)	50
VSWR	≤1.4
Maximum input power (W)	100W
Lightning protection	DC Ground

Mechanical specifications	
Connector	1×N－female
Connector position	Bottom
Height×Diameter (mm)	700×φ25
Packing size (mm)	870×230×180
Antenna weight (kg) (with installation kit)	1
Packing weight (kg)	3.7
Wind loading area (m²)	0.02
Rated wind velocity (m/s)	60
Radome material	PVC
Radome color	Pantone cool gray 3u
Operating temperature (℃)	-40～60
Mounting hardware (mm)	φ20～φ55





5725MHz



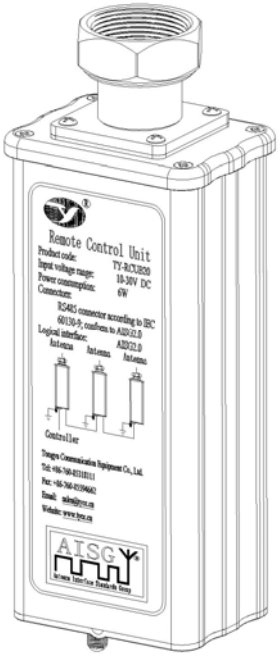
5875MHz

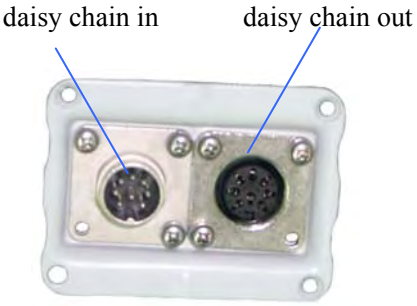
Accessory

TY-RCUB20

For Tongyu VET (Variable Electrical Tilt) base station antennas，or other manufacture's VET antenna with adjust the downtilt and appropriate mechanical interface.

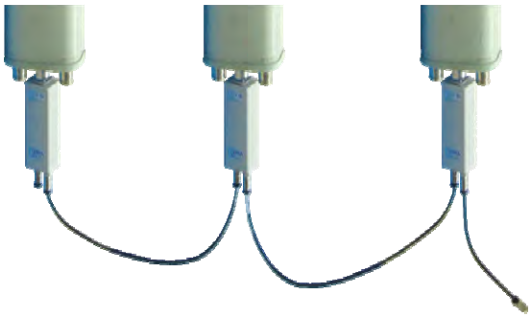
Specifications	
Product Model	TY-RCUB20
Version	V1
Input voltage range	10-30V DC
Power consumption	6W
Connectors	2 x 8 pin connector conform to IEC 60130-9; Daisy chain conform to AISG2.0: male connector-in; female connector-out; Coated metal: terminate
Hardware interfaces	RS 485A/B (pin 5, pin 3); power supply (pin 1, pin 6); DC return (pin 7); Ground (shielding); conform to AISG2.0
Logical interface	HEX coded commands based on HDLC protocol, conform to AISG
Adjustment time (full range)	30sec (typically, depending on antenna type)
Adjustment cycles	> 50000
Temperature range	–40 °C ～ +65 °C
Material of housing	Aluminum with polyester powder coated and varnished (RAL 7035, light grey);
Weight(kg) (without daisy chain termination)	0.7
Dimensions(mm) (without connectors)	159×64×53
Packing size(mm)	240×103×85





Bottom side of RCU

Features: Compact size.
Supports daisy chain connection
Easy installation
Being fit for outdoor environment
High adjustment accuracy



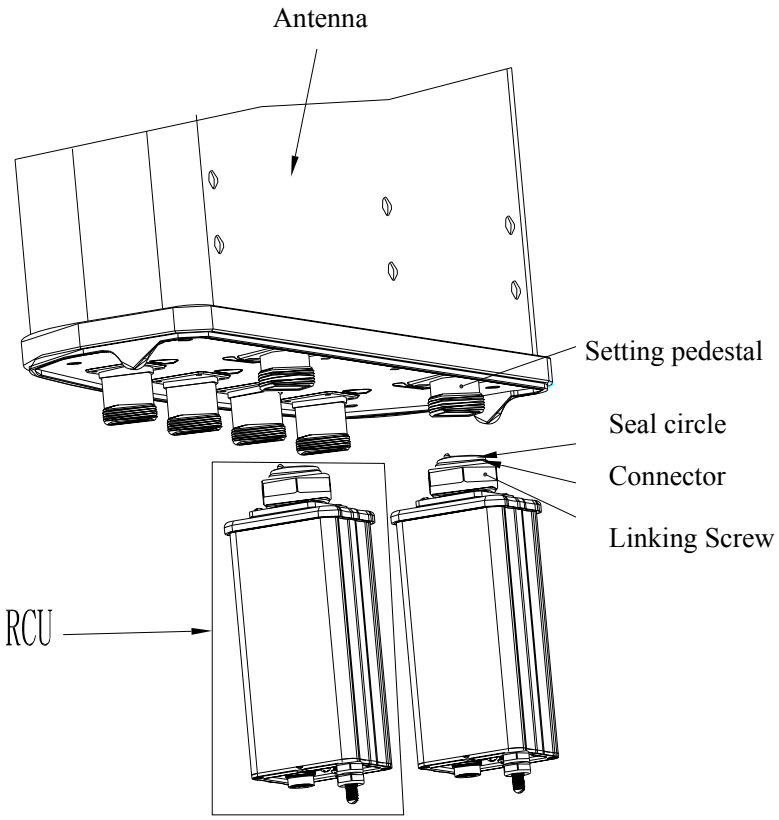
Connect the control cables:

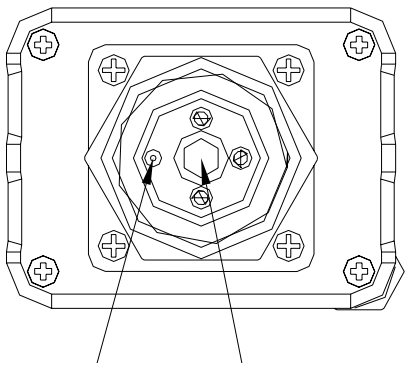
Connect control cable to In-socket of RCU Daisy chain.

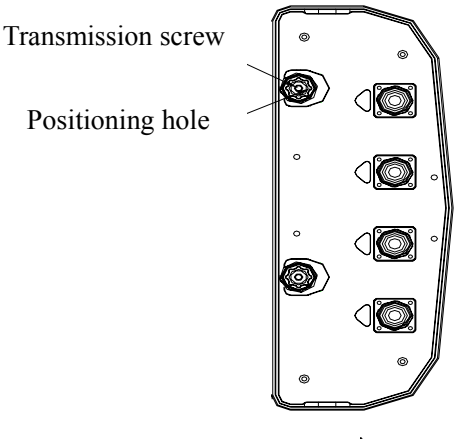
Attention：

Do not remove the protection cap from out-socket if daisy chain is not required.

RCU Installation Manual







Installation Instructions:

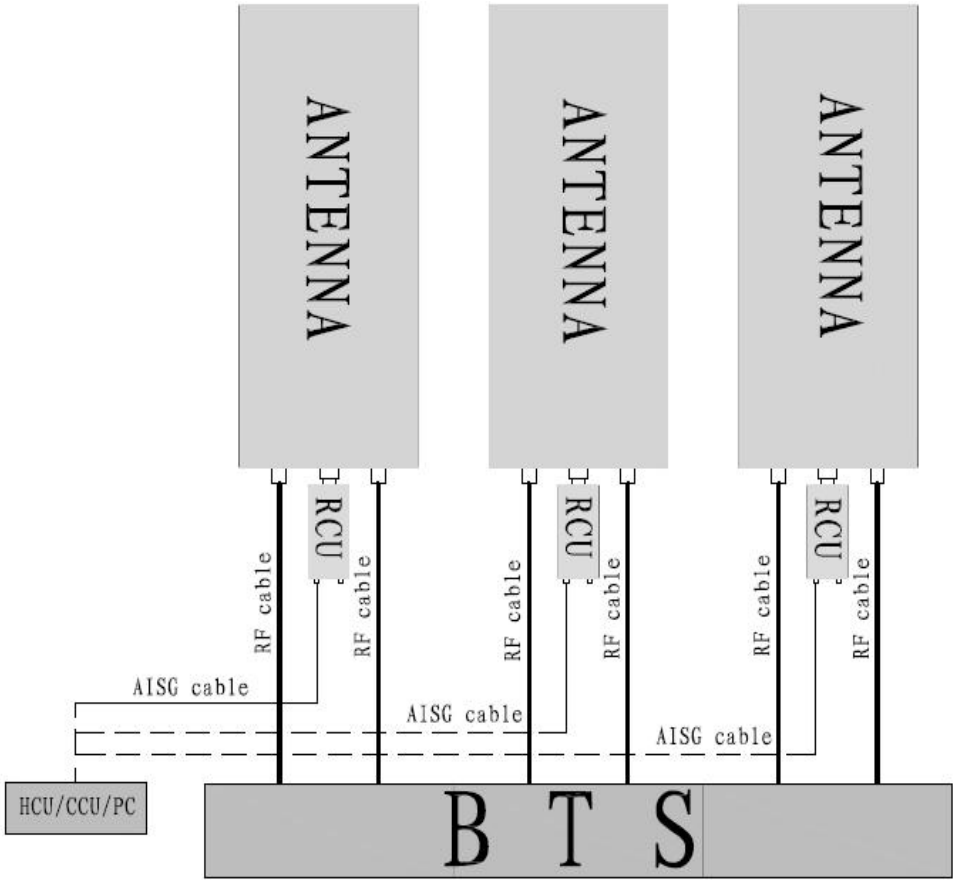
1. Adjust the transmission shaft of motor and positioning needle in the same direction by hand.
2. Adjust setting slot of transmission screw and positioning hole of setting pedestal in the same direction.
3. Put the positioning needle into positioning hole, insert transmission shaft of motor to sealing slot of transmission screw, tighten linking screw.

Note:

Linking screw should be tightened with connector.

Parallel Connection Illustration

2 ports antenna parallel connection mode

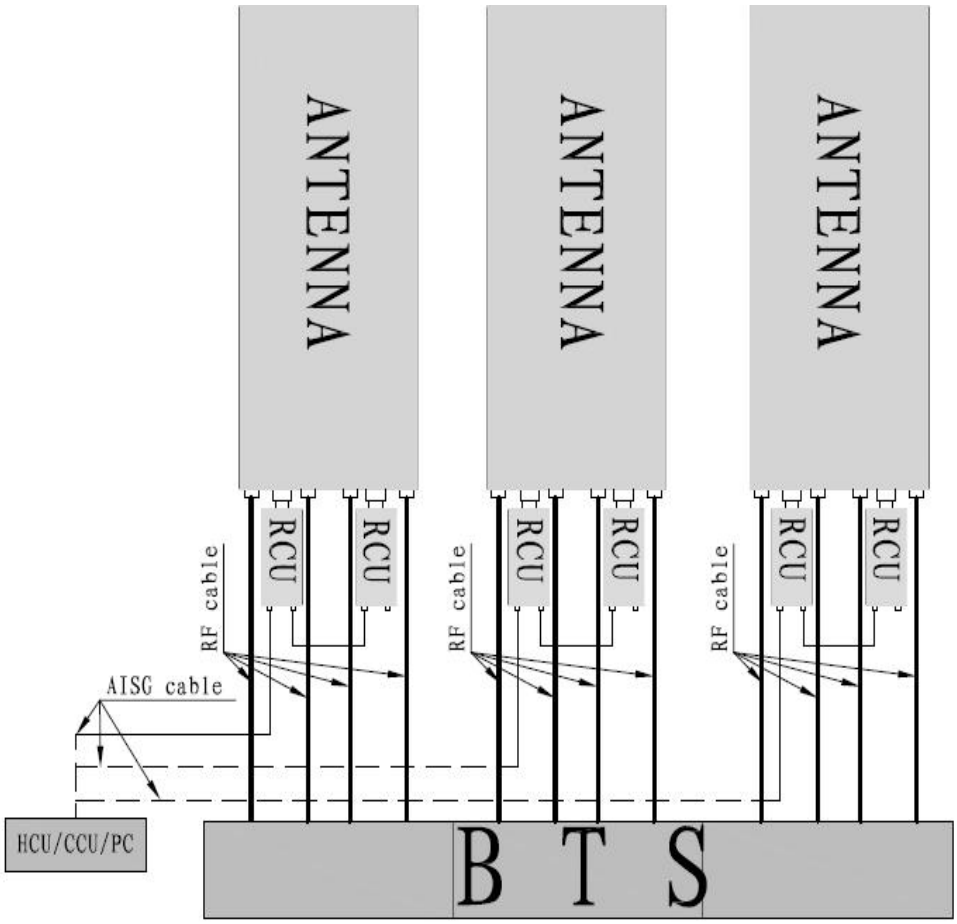


Note: the above drawing shows the parallel connection mode of the 3-sector VET antenna.

The following table shows the related configuration:

Equipment	Quantity	Unit	Explanation
VET Antenna (2 ports)	3	piece	-
RCU	3	Piece	Conform to AISG1.1/AISG2.0
AISG Cable	3	Piece	The length depends on the height of antenna tower(30m/40m/50m)
HCU/PC/CCU	1	Piece	HCU & PC is configured for O&M person. One CCU is for site which provides integrated OMC.

4 ports antenna parallel connection mode

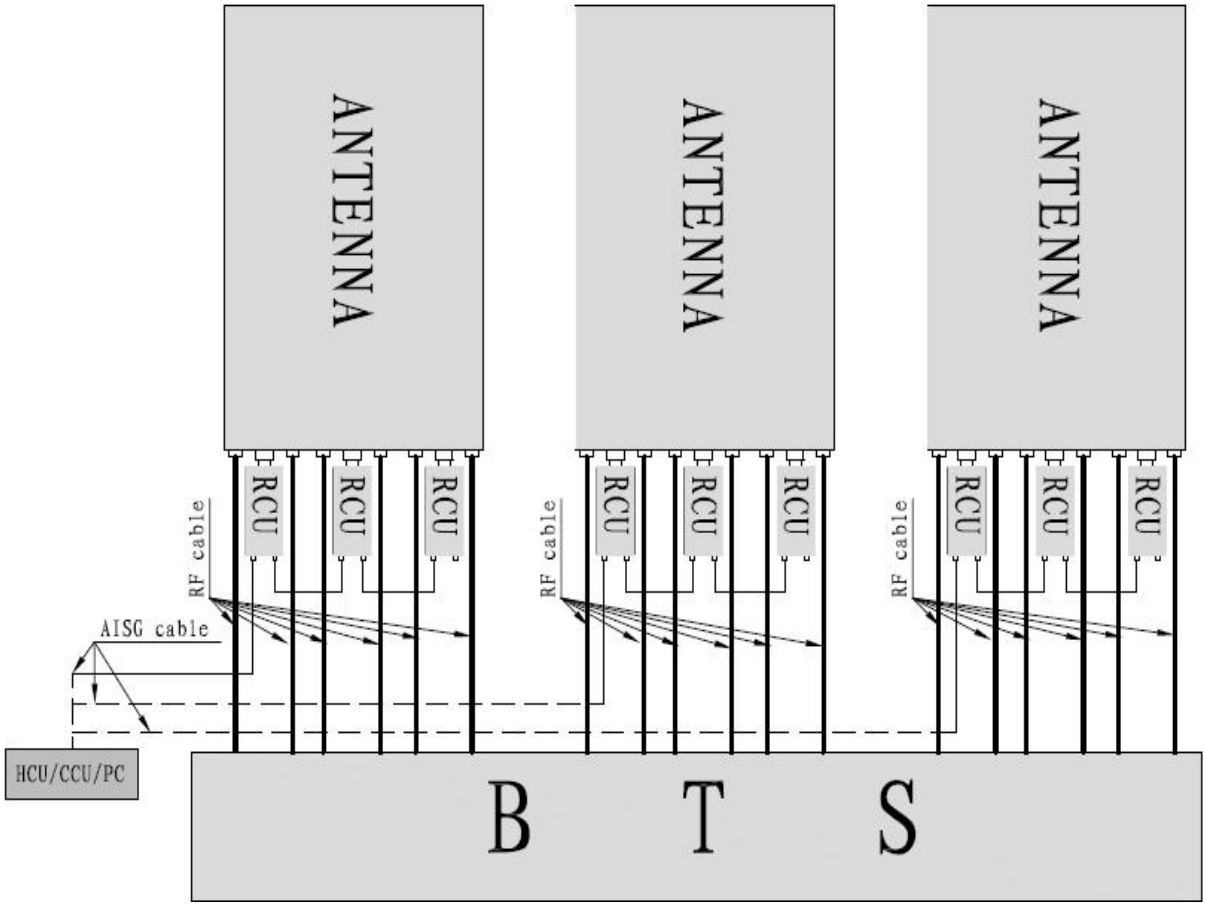


Note: the above plan shows the parallel connection mode of 3-sector & 4 ports VET antenna.

The following table shows the related configuration:

Equipment	Quantity	Unit	Explanation
VET Antenna (4 ports)	3	piece	-
RCU	6	Piece	Conform to AISG1.1/AISG2.0
AISG Cable	6	Piece	The length depends on the height antenna tower(30m/40m/50m)
HCU/PC/CCU	1	Piece	HCU & PC is configured for O&M person. One CCU is for site which provides integrated OMC.

6 ports antenna parallel connection mode

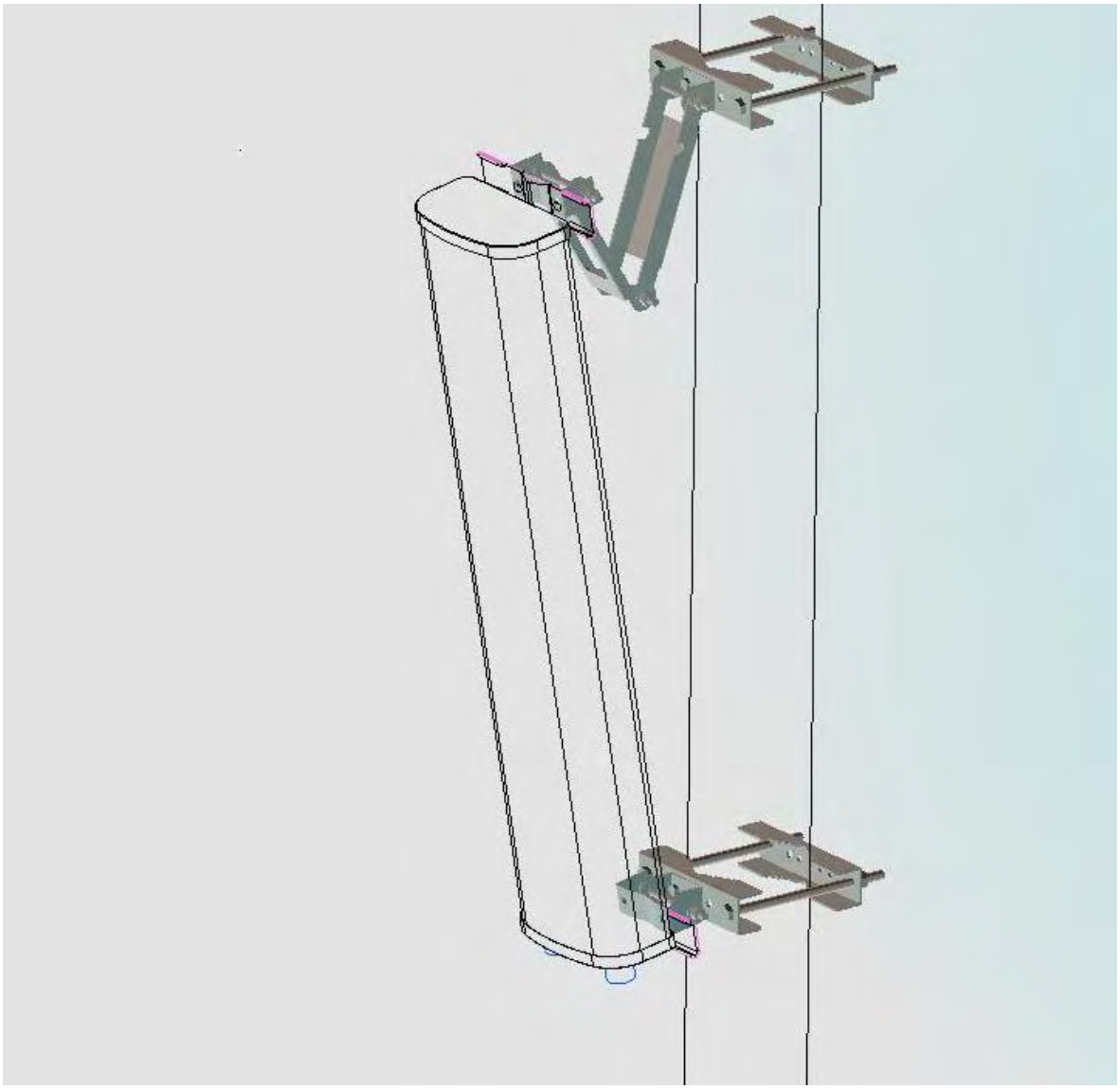


Note: the above plan shows the parallel connection mode of the Tri-Sector VET Antenna.

The following table shows the related configuration:

Equipment	Quantity	Unit	Explanation
VET Antenna (6 ports)	3	piece	-
RCU	9	Piece	Conform to AISG1.1/AISG2.0
AISG Cable	9	Piece	The length depends on the height of antenna tower(30m/40m/50m)
HCU/PC/CCU	1	Piece	HCU & PC is configured for O&M person. One CCU is for site which provides integrated OMC.

Mounting Configuration



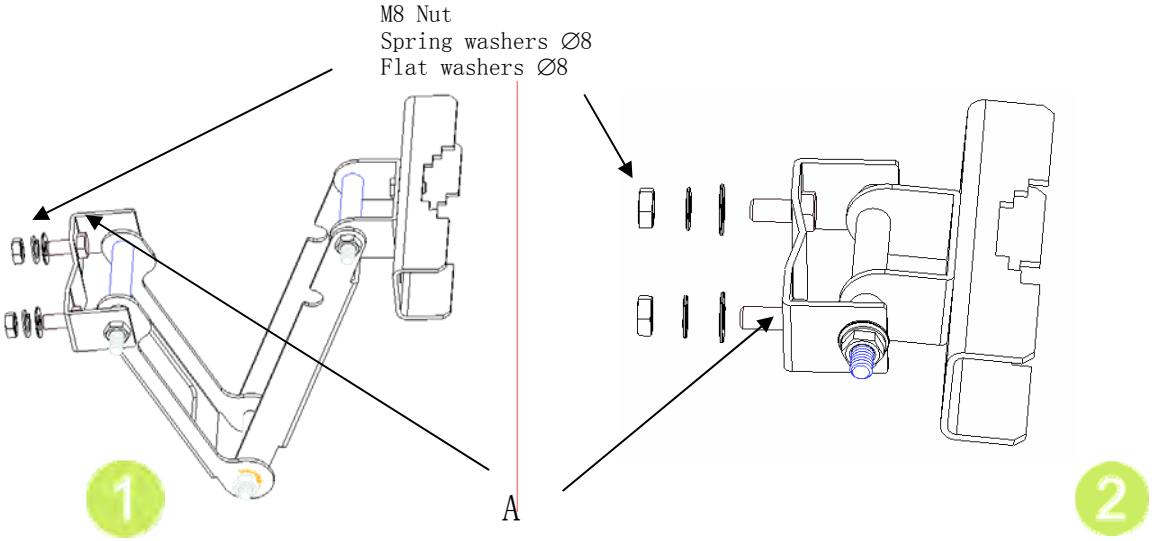
Recommended torque for different diameter bolts:

Bolt diameter	Torque
M6	10Nm
M8	14Nm
M10	26Nm
M12	36Nm

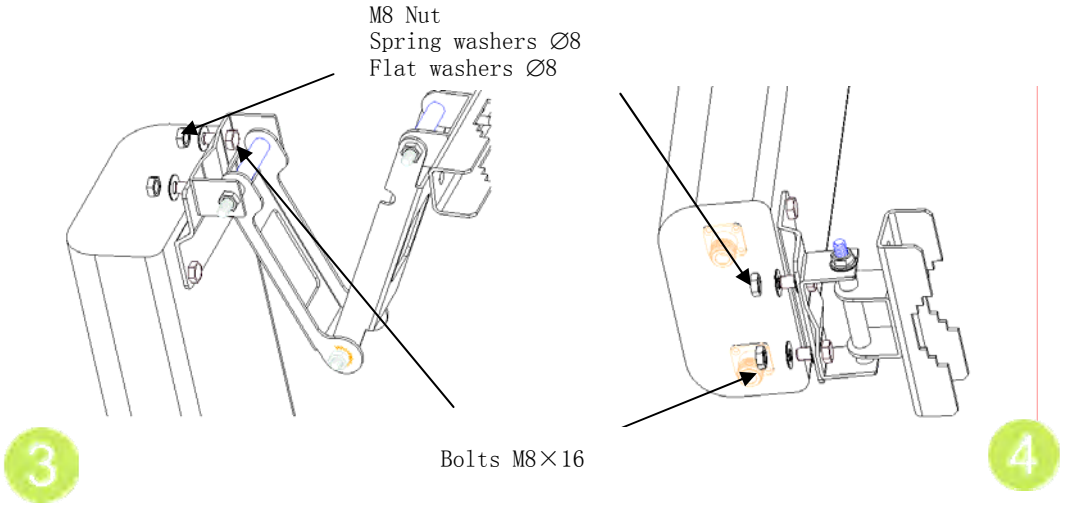
Representative example: for installation kit ： 08 or 08A

Installation instructions and diagrams

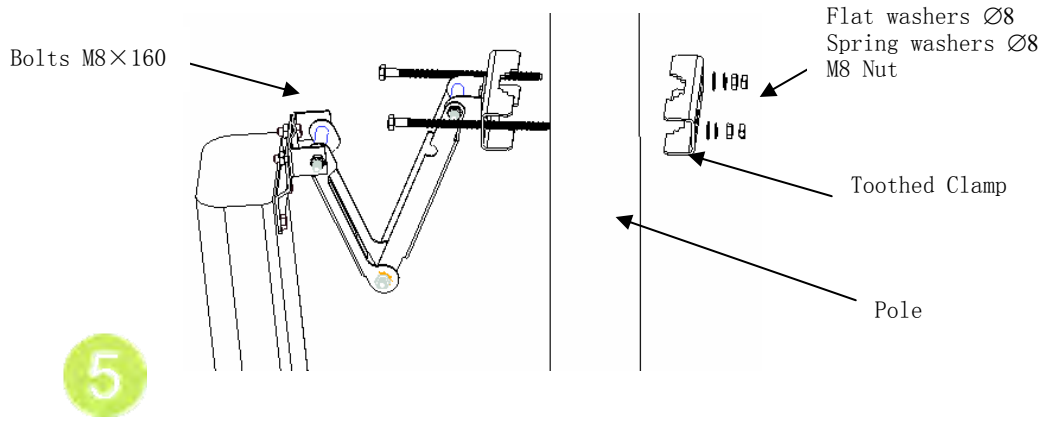
1. Remove the M8 nuts, Φ8 spring washers and the Φ8 flat washers from the mounting bracket, marked as ‘A’ in the diagram 1 and 2.
2. Fix and tighten the top mounting assembly with the top bracket of the antenna using M8x16 bolts and nuts as shown in diagram 3.



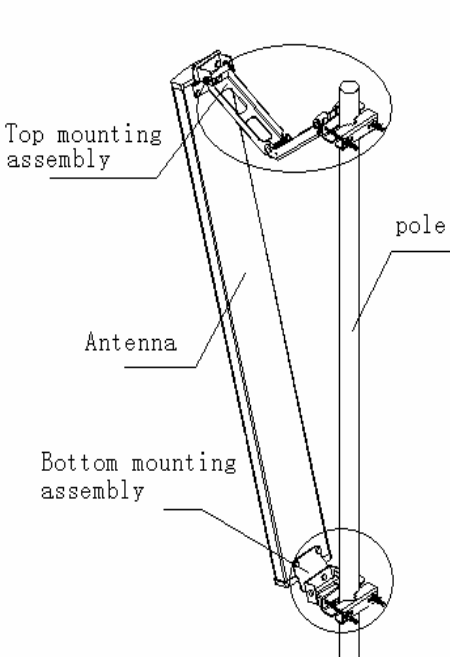
3. Fix and tighten the bottom mounting assembly with the top bracket of the antenna using M8x16 bolts and nuts as shown in diagram 4.
4. As shown in diagram 5, tighten the two top-toothed clamps on mounting pole by using M8×160 bolts and nuts.

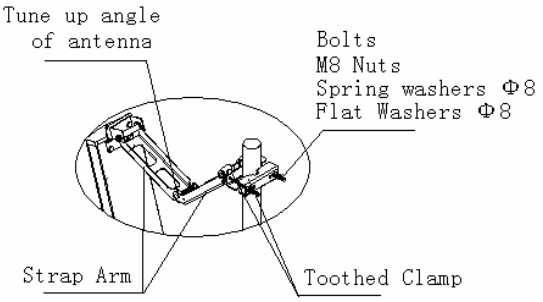


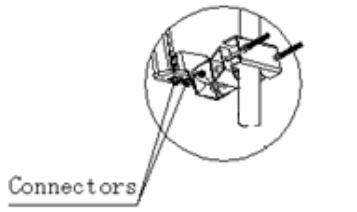
5. Repeat step 5 to fix the two bottom-toothed clamps on the mounting pole.
6. Adjust the antenna to required mechanical down tilt by slightly loosing the top-toothed clamp, down tilt can be measured by scale ruler, then tighten all nuts. See the following diagram.



7. Remove the protective caps from the antenna connectors, fix the cables and the connectors, and then wrap the cable and connectors with weather-proof adhesive tape.







Note:

1. It is forbidden to install antenna near high voltage power lines.
2. Do not try to install antenna when raining, snowing or stormy weather.
3. The diameter of pole should be in 50～115mm.
4. Make sure that spring washers and flat washers should NOT be missing.

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