WCDMA Band Adjustable Pico Repeater

SP-2110



Features

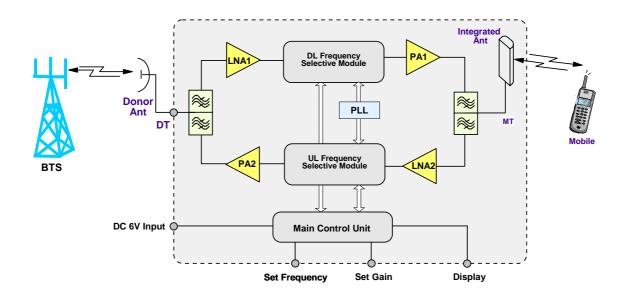
- Bandwidth options of 5MHz, 10MHz and 15MHz, which are adjustable within 60MHz and can be configured through setting center frequency.
- With integrated antenna (6dBi gain) and option for connecting external antenna.
- Low noise amplifier improves uplink system noise figure for better voice quality and reduced dropped call.
- System commissioning can be performed without using any additional tool or equipment.
- Highly integrated design with miniaturized enclosure, light weight and easy to install.



Product Description

The SP-2110 WCDMA Band Adjustable Pico Repeater is designed for indoor operation. It is a bi-directional amplifier that is used to enhance signal strength in small-and-medium-sized areas in a WCDMA network. The system gain is compensated automatically according to the temperature variation within the equipment enclosure, which ensures stable operation under ambient temperature. It is best suitable for provision of signal coverage within offices and residential apartments.

Functional Block Diagram



1/3

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Technical Specifications

		0.05W
Downlink	MHz	2110 - 2170
Uplink	MHz	1920 - 1980
		60
		5, 10, 15
		0 – 28
		17 ± 1.5
Without Integrated Antenna	dBm	16 ± 1.5
	dBm	17 ± 1.5
	dB	≤ 2
	μsec	≤ 4
Maximum Gain	dB	≤ 5
	dBm	3GPP TS 25.106 V6.1.0
	dBm	
	dBm	
		≤ 1.5
ower	dBm	+10
	Ω	50
& Environmental		
	mm	235 x 150 x 54
	kg	1.5
	VAC	90 - 264 / 45 - 65Hz
	W	20
		Convection
		SMA
	°C	-20 to +40
	%	≤ 85
		IP40
	hr	> 50,000
	Downlink Uplink step) With Integrated Antenna Without Integrated Antenna Maximum Gain	Uplink MHz dB Downlink MHz Uplink MHz Step) dB With Integrated Antenna dBm Without Integrated Antenna dBm dBm dBm dBm dBm dBm dBm dBm

Note: Typical specification at room temperature

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System Commissioning

The system commissioning of SP-2110 can be performed without using any additional tool or equipment. Once the equipment lid is removed, programming the equipment is through operating three dial switches with visual feedback by LED.

 $\label{located on the lower-right of the internal operating panel are the three dial switches: ``Freq Control'', ``Freq Offset'' and ``Gain'':$

- Freq Control: is used to set centre frequency and control the working band of the equipment.
- Freq Offset: is used to offset the working frequency preset by "Freq Control".
- Gain: is used to adjust and control equipment gain, which are adjusted according to the actual input signal strength.

Outline Drawing

