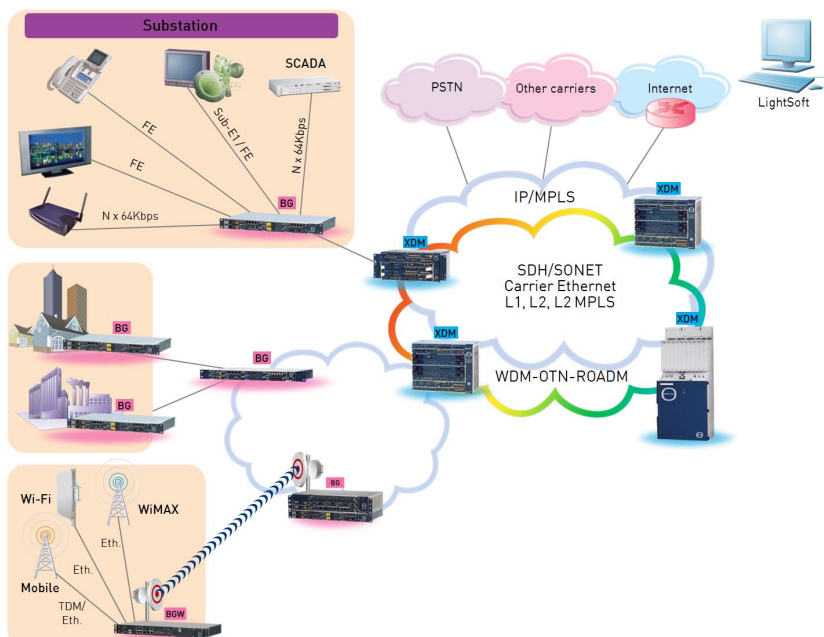![ECI logo]

Your Partner for Growth

BG-30

1Net Your Path for **Growth**

- Carrier-grade platform - enhanced carrier class MPLS capabilities and redundant MADM-1/4/16

- Revenue generating - tiered configurable service offering from POTS to new data services, over existing infrastructure

- Cost cutting - minimal power consumption, redundancy, and full remote management for lowest OAM&P expenses

- Unique scalability -adding new services by coupling BG-30E to BG-30B and scaling bandwidth seamlessly from STM-1 to STM-16

- Cross-connect (DXC 1/0) capability -supporting a rich mix of low bit rate interfaces

The Funnel to the Tunnel

ECI's BG-30 is a revitalizing and advantageous solution for cellular, utilities, and metro-access operators, featuring a small footprint but vast potential. This product provides a full set of MPLS Layer 2 capabilities plus an entire range of Ethernet over SDH, Ethernet over PDH, PCM, PDH, and SDH services, allowing carriers to leverage their legacy SDH installed base while offering a mix of PCM and carrier class Ethernet services to their customers. The BG-30 supports full triple play services, IPTV, VoD, VoIP, and HSI for residential NGN applications. It also optimizes as an access aggregation platform and as an MSAG (MultiService Aggregation Gateway) CLE platform. It supports enhanced video handling and P2MP multicast tree connectivity, which enables highly efficient bandwidth savings for broadcast TV/IPTV services, as well as star VPLS for IPTV and IGMP control messages.

Technical Specifications

Interfaces, Topologies, and Protection

SDH tributary and aggregate interfaces	STM-1, STM-4, and STM-16
PDH tributary interfaces	E1, E3, DS-3
Data-aware interfaces	10/100/1000 Mbps, Ethernet over SDH (EoS), Ethernet over PDH (EoP), IP, MPLS
PCM interfaces	FXO, FXS, 2/4W E&M, V24, V35, G.703 64K, V11/X21
Topologies	Mesh, multi-ring, ring, star, linear

System Capacities

Ethernet	**Layer 1** 42 x 10/100BaseT 18 x 10/100FX 18 x 1000SX/LX/ZX	**Layer 2 and MPLS** 42 x 10/100BaseT 18 x 10/100FX 18 x 1000SX/LX/ZX
SDH	32 x STM-1 23 x STM-4 5 x STM-16	
PDH/PCM	252 x E1, 18 x E3, 18 x DS-3, 72 x PCM I/F	

Other Specifications

Power input	-40 VDC to -75 VDC 220 V
Power dissipation (Max./Typical) BG-30B BG-30E	103/70 W 130/60 W
Operating temperature range	-25°C to +70°C -13°F to 158°F
Operating RH range	5% to 95%
Environmental standards	ETS 300 019-1-3 Class 3.3 ETS 300 019-1-1 Class 1.2 ETS 300 019-1-2 Class 2.3
Safety	EN 60950/2000, according to LVD Directive 72/23/EEC EN 60825 -1&2
Management	End-to-end management of all layers and services
Physical dimensions (mm) BG-30B BG-30E	44 (H) x 465 (W) x 263 (D) 88 (H) x 465 (W) x 263 (D)
SFP	Colored CWDM/DWDM Non-colored SFP

1Net defines ECI's focus on facilitating our customers' optimal transition to Next-Generation Networks, through the unique combination of innovative and multi-functional network equipment, fully integrated solutions and all-around services

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CARRIER ETHERNET MEF Certified Compliant

TL9000