



Your Partner for Growth



BG-30

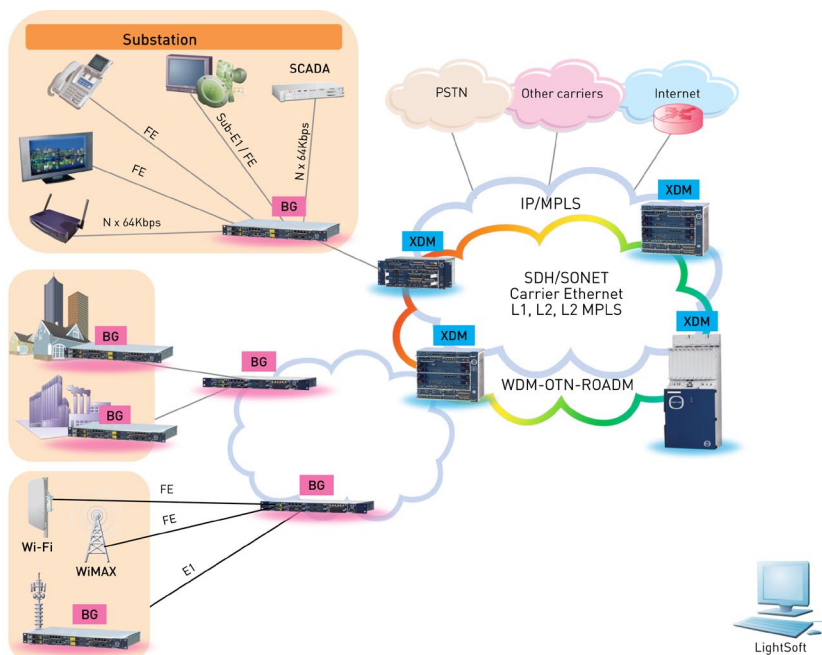


- Carrier-grade platform – enhanced carrier class MPLS capabilities and redundant MADM-1/4/16
- Revenue generating – tiered configurable service offering from POTS to new data services, over existing infrastructure
- Cost cutting – minimal power consumption, redundancy, and full remote management for 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 bitrate 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 (Multi Service 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	FX0, FXS, 2/4W E&M, V24, V35, G.703 64K, V11/X21
Topologies	Mesh, multi-ring, ring, star, linear

System Capacities		
Ethernet	<u>Layer 1</u>	<u>Layer 2 and MPLS</u>
	42 x 10/100BaseT	42 x 10/100BaseT
	18 x 10/100FX	18 x 10/100FX
	18 x 1000SX/LX/ZX	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	103/70 W
BG-30E	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	44 (H) x 465 (W) x 263 (D)
BG-30E	88 (H) x 465 (W) x 263 (D)
SFP	Colored CWDM/DWDM Non-colored SFP



1Net

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



www.ecitele.com

ECI Headquarters
Tel: +972 3926 6555
Fax: +972 3928 7100

EMEA
Tel: +44 1256 388000
Fax: +44 1256 388143

RoAPAC
Tel: +65 6505 1960
Fax: +65 6505 1999

CIS
Tel: +972 3926 8548
Fax: +972 3926 6452

Americas
Tel: +1 954 772 3070
Fax: +1 954 351 4404

India (Mumbai)
Tel: +91 22 6715 5555
Fax: +91 22 6675 8973



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