Broadband Loop Carrier 8620
8620-A1-500

Multi Service, Medium-Capacity Modular BLC for Central Office and Remote Terminal deployments of Voice, Video and Data over Broadband

Overview

The 8620 Broadband Loop Carrier (BLC) is a space-saving, standards-based, medium sized access platform that offers the complete flexibility of the larger 8820. The small footprint makes this an ideal solution for deploying POTS, T1/E1, and the widest range of DSL technologies in the industry for locations requiring 144 ports or less.

Supporting either IP or ATM uplinks, the 8620's multiservice capability allows service providers to economically deliver high-speed broadband services to all subscribers, whether they are located in thee heart of a metropolis or at a remote, hard-to-reach location on challenged copper loops.

The 4-slot 8620 supports industry standards-based technologies including POTS, T1, E1, ADSL2+, ReachDSL, SHDSL, TDM SHDSL, and TDM SDSL. If your requirement is for complete flexibility in a smaller footprint, the 8620 BLC is the perfect choice.

Features

- Four slot chassis supports up to 144 ports, delivering the most flexible NEBS certified solution in the industry

- Supports POTS, T1, E1, ADSL2+, SHDSL and ReachDSL in any of the 3 line card slots

- ADSL2+ Annex M: Symmetrical services up to 2.7 Mbps in one copper pair using standard CPEs

- Full QoS support with either ATM or IP based uplinks

- Support of Single Ended Loop Test (SELT) & Dual Ended Loop Test (DELT)

- Web-based, SNMP, and command line user interfaces

- AC and DC power options

Benefits

- Mid-sized chassis based BLC

- Deliver true triple play in a small footprint

- Wide variety of uplinks to meet any network requirements

- Supports IP and ATM network models

- Integrated loop qualification and diagnostics via the use of SELT/DELT

- Easy migration from ATM to IP ensures investment protection

- Full QoS support for prioritization of mission critical applications

Specifications

Dimensions
5.25in H x 17.2in W x 12in D (13.46cmx 44.10cm x 30.77cm)

Weight
AC model: 18 lbs (8.16kg) (no cards)
DC model: 14.4 lbs (6.53kg) (no cards)

Power
DC: -42 VDC to -57 VDC
AC: 85 VAC to 264 VAC (47/63Hz)

Interfaces
Uplink: 10/100/1000BT, Fiber GigE, OC3/STM1, T1/E1 IMA, DS3
Line Cards: SHDSL, ADSL2+, ReachDSL 2.2, T1, E1, POTS

Standards Support
ADSL: ITU G.992.1 (G.DMT), ITU G.992.2 (G.lite), ITU G.992.3 (G.DMT.BIS), ITU G.992.5 (ADSL2+), ITU G.994.1 (G.hs), ITU G.997.1, Annex A, Annex B, Annex M
SHDSL: ITU G.991.2, ITU G.994.1 (G.hs), ITU G.997.1
POTS: GR-506, GR-507, G.711 µLaw, G.711 ALaw, G.726, G.729, G.168 Echo cancellation, T.38 Fax relay
T1/E1: T1.403_1999, G.703, G.704

Protocol Support
ATM Features/ Specifications: 8192 VCs per system, UNI 3.0, 3.1,4.0, QOS : UBR, VBR-rt, VBR-nrt, CBR, Full VPI / VCI range, Traffic policing per TM 4.1, Traffic shaping, VC and VP switching, IMA version 1.0 and 1.1

IP Features / Specifications: IGMP Snooping, Multicast, 802.1Q VLAN, 802.1p Priority Queuing, RFC 1483/2684 Bridged Encapsulation, Address filtering, Secure forwarding, DHCP Snooping, Proxy ARP, PPPoA to PPPoE

Management
SNMP V1, V2, V3, MIB-II (RFC1213, RFC1573), ATM MIB (RFC2515), M4 MIB (ATM Forum SNMP M4 Network Element View), IMA MIB (AF-PHY-0086.1), DS1/E1 MIB (RFC 2495), Paradyne Enterprise MIB

Regulatory Compliance
NEBS (GR-63-CORE, GR-1089-CORE), UL 60950 3rd Edition, (Safety Standard), CSA 60950-00 (Safety Standard), ICES-003 Class A (Canadian Emission Standard), Industry Canada CS-03 Certified, CE (Emissions and Immunity per ETSI EN 300 386-2), EN 60950, VCCI Class A, FCC Part 15 Class A, EN 55022, Class A

Operating Requirements
Temperature: -20C to +65C
Non-operating temperature: -40C to +80C
Humidity: 5% to 95%, non-condensing

Ordering Information

8620-A1-500	BLC8620 4 Slots Chassis
8411-B1-000	SCP DS3 ATM Uplink Card
8413-B1-000	SCP OC3/STM1 SM INT ATM Uplink Card
8416-B1-000	SCP 8 T1 IMA Uplink Card
8417-B1-000	SCP 8 E1 IMA Uplink Card
8429-B1-000	SCP GIGE Fiber & 10/100/1000BT Uplink Card
8799-B2-000	TDM 8 G.SHDSL / 8 E1 Line Card
8922-B1-000	POTS 24 Ports Line Card
8955-B1-000	REACHDSL 2.2 ATM 24 Ports Line Card
8968-B1-000	ADSL2+ ATM 48 Ports Line Card
8985-B2-000	G.SHDSL ATM 24 Ports Line Card
8995-B1-000	T1 8 IMA Ports Line Card
8997-B1-000	E1 8 IMA Ports Line Card