

## Benefits and Features

- ❖ Universal chassis configurable for DS3 or STS-1
- ❖ Smallest footprint - only 1 RU
- ❖ NEBS Level 3 certified
- ❖ Hot insertion and card swap out
- ❖ 1:1 protection option
- ❖ Single part number ordering configuration makes ordering quick and easy
- ❖ Full SNMP management
- ❖ Remote provisioning and LAPD messaging over C-Bit
- ❖ TFTP software downloadable
- ❖ Menu-driven RS-232 interface
- ❖ Password protection
- ❖ AMI/B8ZS and line buildouts remotely selectable per DS1
- ❖ DS1 and DS3 loopback feature (local and remote)
- ❖ Internal BERT testing and NIU loop support
- ❖ TL1 simultaneous support of multiple sessions
- ❖ EdgeLink-T3-E/O® Fiber Transport Terminal (optional)
- ❖ Battery Backup System (optional)
- ❖ Custom rack-and-stack configurations available

## EdgeLink100 DS3 Multiplexer



### Compact, lowest price and easy-to-install

As bandwidth requirements grow, service providers increasingly find themselves in need of DS1/E1 to DS3 aggregation at their Points-of-Presence (POP). This demand has resulted in a dramatic increase for a new class of broadband connection devices at the network edge. Telco Systems' EdgeLink100® DS3 multiplexer meets this demand.

EdgeLink100 is the industry's smallest, most cost-effective, carrier-class DS3 multiplexer available, proven in service providers' networks around the world. Its compact design is perfect for cramped co-location edge applications where real estate is limited but bandwidth demand is high. Up to 28 DS1s, 21 E1s, or a combination of the two are available from this 1 RU multiplexer, which is deployed at every edge of the network, from the core to CPE edge.

EdgeLink100's plug-and-play architecture, connectorized DS1s and user-friendly remote provisioning menus save service providers valuable installation time enabling them to turn up T1s faster, reducing the cost of service deployment and management. Additional features such as circuit loopback, auto sensing, remote testing, tributary mapping, TL1 management via multiple sessions, optional integrated patch panels, and LAPD messaging also result in lower operational costs.

# Specifications

## Transmission Specifications

### DS1 Interface

Number of Lines	Up to 28 per shelf
Line Rate	1.544 Mbps $\pm$ 32ppm
Line Code	Selectable AMI/B8ZS (per ch.)
AIS Line Rate	1.544 Mbps $\pm$ 32ppm
Line Impedance	100 ohm, nominal balanced
Pulse Amplitude	2.4V to 3.6V
Jitter Generation	<0.3 UI rms
Cable	ABAM or equivalent
Span	655 ft. to cross-connect

### E1 Interface

E1 Interface	G.747
Number of Lines	Up to 21 per shelf
Line Rate	2.048 Mbps $\pm$ 50 ppm
Line Code	HDB3
AIS Line Rate	2.048 Mbps $\pm$ 50 ppm
Line Impedance	120 Ohm nominal, balanced
Pulse Amplitude	3.0V $\pm$ 0.6V
Jitter Generation	<0.4 UI rms
Cable	ABAM or equivalent
Span	0 to 6 dB attenuation

### DS3 Interface

Number of Duplex Lines	1 per shelf
Line Rate	44.736 Mbps $\pm$ 20ppm
Line Code	Bipolar, three zero substitution
Line Impedance	75 ohm, unbalanced
Pulse Amplitude	.36V to .85V
Cable	728A, RG-6/U, 734A/U, 735A/U
Span	450 ft. to cross-connect
Framing	P-Bit (M13) or C-Bit

## General Specifications

### Interfaces

DS3	BNC, male
DS1	64 pin Amp, female
Craft/Modem/PPP	8 pin modular, female
Ethernet/Telnet	10Base-T
Alarm Contact	Wirewrap
Power	Dual feed terminals

### System Management

Embedded SNMP Management	
TELNET	
PPP	
TL1 Alarming and Provisioning over TCP/IP or TELNET	

### System Management (cont.)

Local Craft VT-100/ANSI Terminal (Menu-driven)	
Office Alarms (Major, Minor, Critical, Far End)	
LAPD Messaging over C-Bit	
Internal BERT Testing	
NIU Loopcode Support	
Supported under Telcordia NMA	

### Power Requirements

Voltage	-41.5 to -56.3 Vdc
Power Consumption	25 watts typical
Current Draw	0.6 Amps typical

### Environmental

Operating Temperature	32°F to 104°F (0°C to 40°C)
Relative Humidity	Up to 90%, non-condensing
Altitude	Up to 10,000 ft. above sea level

### Compliance

FCC 15 & 68 (Class A)
UL Product Safety
CSA
GR-499-CORE
GR-1089 & GR-63 (NEBS)
OSIA Telcordia

### Dimensions

Height	1.75"
Width	17.15"
Depth	12"
Weight	8 lbs fully loaded

### Optional Equipment

(Call today for more information)	
Battery Backup System	Up to 8 hours
EdgeLink-T3-E/O Fiber Transport Terminal	for Singlemode and Multimode Applications
Integrated Demarcation Panel (IDP)	

### Ordering Information

Model No.	Description
AXX238	DS3 multiplexer 28 DS1s unprotected
AXX239	DS3 multiplexer 28 DS1s protected
AXX333	DS3 multiplexer T1/E1 unprotected
AXX334	DS3 multiplexer T1/E1 protected

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