

## EdgeLink® 100

DS3 Multiplexer



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. The EdgeLink® 100 DS3 multiplexer from Telco Systems meets this demand.

The EdgeLink 100 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 combi-

nation 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.

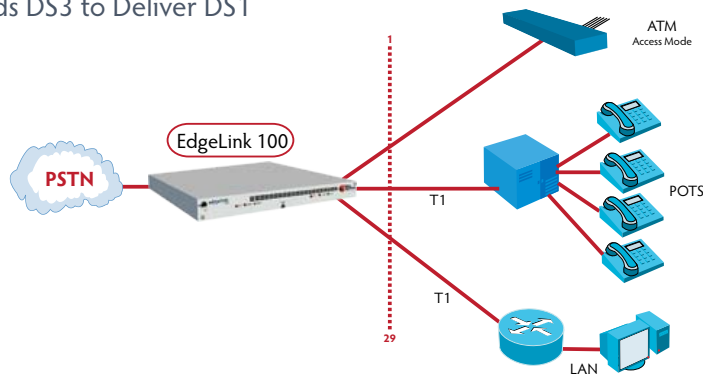
The EdgeLink 100 platform's plug-and-play architecture and user-friendly remote provisioning menus save service providers valuable installation time enabling them to turn up T1s faster, reducing the cost of service deployment and management.

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.

- Universal chassis configurable for DS3 or STS-1
- Smallest footprint - only 1 RU
- NEBS Level 3 certified
- Full SNMP management
- Remote provisioning and LAPD messaging over C-Bit
- TL1 simultaneous support of multiple sessions
- Hot insertion and card swap out
- 1:1 protection option
- Single part number ordering configuration makes ordering quick and easy
- Menu-driven RS-232 interface
- TFTP software downloadable
- 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
- Battery Backup System (optional)

# EdgeLink 100

Extends DS3 to Deliver DS1



EdgeLink100 provides migration path from legacy to IP-based services. Quick equipment payback for ISPs leasing DS3s to provide high-speed internet access.

## Key Applications

- Leverages low-cost leased access to enter new markets
- Provides migration path from legacy to IP-based services
- Combines packetized voice and data traffic onto multiple T1 or Ethernet to reduce delivery costs

## Specifications

### General Specifications

#### Interface

- 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
- 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

- Battery backup system for up to 8 hours
- Integrated Demarcation Panel (IDP)

### 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 20 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

- # 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

## Ordering Information

Part Number	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



**Int'l Headquarters**  
 Tel: +972-9-866-2525  
 Fax: +972-9-866-2500  
 sales.emea@telco.com  
 http://www.telco.com

**US Headquarters**  
 Tel: +1-800-221-2849  
 Fax: +1-781-551-0538  
 sales@telco.com  
 http://www.telco.com

**Germany**  
 Tel: +49-241-4635490  
 Fax: +49-241-4635491  
 info@batm.de  
 http://www.telco.com

**France**  
 Tel: +33(0)1-567-12-773  
 Fax: +33(0)1-437-71-780  
 support@batm.fr  
 http://www.batm.fr

**Asia Pacific**  
 Tel: +65-6224-3112  
 Fax: +65-6220-5848  
 info.apac@telco.com  
 http://www.telco.com

**Japan**  
 Tel: +81(3)5215-5709  
 Fax: +81(3)5215-5704  
 Info.jp@telco.com  
 http://www.telco.com