Telco Systems
A BATM Company

EdgeLink-T1/E1-E/O
Fiber Transport Terminal

Benefits and Features

- Ideal for EdgeLink300 T1 fiber extension

- 1 rack unit, 2 units can be stacked side by side in standard rack deployment

- 1.544 Mbps or 2.048 Mbps

- Transparent to line codes; passes bipolar violations

- 850nm multimode optics

- 1310nm singlemode optics

- Local/remote loopback

- Alarm relay contacts

- 120 VAC, 240 VAC and -48 VDC

- Switch selectable 75 ohm unbalanced and 120 ohm balanced interface impedances for E1 applications are supported. The T1 versions come standard for 100 ohm balanced impedance operation.

A simple solution for extending EdgeLink300 T1/E1 services over fiber

EdgeLink-T1/E1-E/O Fiber Transport Terminal is the ideal solution for extending T1/E1 services over fiber supporting standard speeds of 1.544 Mbps (T1) and 2.048 Mbps (E1). It is ideal for extending EdgeLink300® integrated voice and data services over fiber. The unit provides a transparent fiber optic link extension for T1 or E1 signals. It accurately transmits and receives bipolar violation and line codes such as AMI, B8ZS and HDB3. It is available as a stand alone unit and is rack-mountable. A variety of interface connectors are available to facilitate connectivity with a multitude of T1/E1 products.

Typical applications include extending T1/E1 for video conferencing, PBX extensions or integrated services for networks installed with fiber. EdgeLink-T1/E1-E/O is available with 850nm multimode optics and 1310nm singlemode optics. In applications where 1310nm lasers are used over singlemode cable, transmission distances of 25 km or more are possible. ST or FC/PC fiber interface connectors are available.

Specifications

Transmission Specifications
Optical

Composite Error Rate	$\leq 10^{-10}$
Transmitter	LED (850nm, multimode)
	Laser Diode (1310nm, singlemode)
Connectors	ST Fiber
	RJ48 T1/E1 (electrical)

Alarm Connectors

Available Through Data Interface

Loss Budget

850nm LED	15 dB
1310nm Laser	20 dB

Electrical Characteristics

T1	E1

Impedance

	T1	E1
Unbalanced	N/A	75 ohms
Balanced	100 ohms	120 ohms

Input Sensitivity

T1	E1
-6 dB	-6 dB

Output Signal Level

	T1	E1
75 ohm	N/A	4.74p-p± 10%
100 ohm	6Vp-p± 1.4V	N/A
120 ohm	N/A	6Vp-p± 10%

Diagnostic LEDs

Pwr	Power ON
Tx	Transmit Data
Rx	Receive Data
Loopback	Enabled

Test

Loopback	Local/Remote

Dimensions

Width	8.4 in. (215 mm)
Depth	12.2 in. (313 mm)
Height	1.75 in. (45 mm)
Weight	3.6 lbs. (1.63 kg)

Environmental

Operating Temp.:	32°F to 122°F (0°C to 50°C)
Humidity:	Up to 95%, noncondensing

Power Source

Standard:	120 VAC ± 10% Watts (max); 60 Hz
Optional:	-48 VDC (38 to 72 VDC); 0.2 Amps 9 (max)

Certification/Compliance

CE, EN 60950, Austel
UL 1950, CSA 950, FCC Part 15, IEC 950

Ordering Information

Model Number	Description
EL300-EOMM*	T1/E1 Electrical Optical, Multimode
EL300-EOSM*	T1/E1 Electrical Optical, Singlemode