

## **Benefits and Features**

- Extended temperature operation -40°C to 65°C
- Optical DS3 option up to 25 km
- Smallest footprint only 1 RU
- NEBS Level 3 certified
- 1:1 circuitry protection and 1+1optical facility protection
- Hot insertion and card swap out
- Full SNMP and TL1 management
- In-band remote management over C-bit
- Internal loop back and line testing capabilities
- Menu-driven RS-232 interface
- Non-intrusive software upgrades
- Battery backup system (optional)
- Custom rack-and-stack configurations available

# EdgeLink100XT Hardened DS3 Multiplexer



#### Industry's most flexible, scalable DS3 Multiplexer

As demand for bandwidth and services continues to rise at the edge of the network, so does the need for flexible, scalable products that will work in any environment. EdgeLink100XT delivers. It has the flexibility service providers need to deliver broadband services further out to the edge. Its DS3 optical functionality and its extended temperature rating enable it to be deployed in any environment.

#### **Extended Temperature Operation**

EdgeLink100XT is the only compact, 1 rack unit, DS3 multiplexer available and rugged enough to handle uncontrolled environments. It meets Bellcore GR-63 requirements for extended temperature operation and is the ideal service provider solution for environments with temperatures ranging from -40°C to 65°C.

#### **DS3 Optical or Electrical Interface**

Service providers all over the world have selected our electrical EdgeLink100 for their cramped co-locations, where bandwidth demands are high, but real estate is limited. The added flexibility of the optical module enables them to optically extend DS3 from a CO or POP up to 25 kilometers. The combination of extended temperature support and optical delivery is a perfect solution for cell sites and remote terminals where bandwidth to provide enhanced services has exceeded T1, but doesn't warrant the cost of an OC-3. EdgeLink100XT gives service providers an alternative to their costly SONET equipment and to their bandwidth-limiting DS2 optical extension devices when pushing services deeper in to their networks.

EdgeLink100XT can be used in a point-to-point configuration delivering up to 28 DS1s, or used in conjunction with Telco Systems' DS3 electrical-to-optical media converter (EdgeLink-T3-E/O) to provide long-haul transport of DS1s from a CO DS3 DCS or switch port.

The proven, carrier-class EdgeLink100 with these added features make it the most flexible and complete DS3 multiplexer available.





# **Specifications**

## **DS1 Interface**

Number of Lines Line Rate Line Code

AIS Line Rate Redundancy Line Impedance Pulse Amplitude Cable Span Up to 28 per shelf 1.544 Mbps ± 32ppm Selectable AMI/B8ZS (per channel) 1.544 Mbps ± 32ppm 1:1 100 ohm, nominal balanced 2.4V to 3.6V ABAM or equivalent 655 ft. to cross-connect (50 ft in XT environments)

1 per shelf

## **DS3 Electrical Interface**

Number of Duplex Lines Line Rate Line Code

Framing Redundancy Line Impedance Pulse Amplitude Cable Span

Power Level

44.736 Mbps ± 20 ppm B3ZS (Bipolar three zero substitution) P-Bit (M13) or C-Bit 1:1 75 ohm, unbalanced .45V to .90V 728A, RG-6/U, 734U, 735U 450 ft. to cross-connect (728A) (50 ft in XT environments) -2.7dBm to +4.7dBm

#### Craft/Modem/PPP Ethernet/TELNET

Τ1

Power

Interfaces

DS3 Electrical

Alarm Contact

DS3 Optical

SC connector 64 pin Amp, female 8 pin modular, female 10Base-T Wire wrap Dual feed terminals

BNC, male

#### System Management

Embedded SNMP Management TELNET PPP TL1 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 Status LEDs DS1 and DS3 Loop Back (Internal and NIU Generated) BERT Testing and Monitoring

## **Power Requirements**

Voltage Power Consumption

Current Draw Recommended Fuse -41.5 to -56.3 Vdc Electrical 32 Watts maximum Optical 48 Watts maximum 0.75 Amps typical 2-3 Amps

-40°F to 149°F (-40°C to 65°C)

Up to 10,000 ft. above sea level

Up to 90%, non-condensing

# **DS3 Optical Interface**

Number of Duplex Lines Line Rate Line Code Redundancy Cable Span Loss Budget Power Level 1 per shelf 44.736 Mbps ± 20 ppm Proprietary 1+1 1310nm single mode 25 Km Dynamic range 31dBm -8dBm to -15dBm

## Environmental

Operating Temperature Relative Humidity Altitude

## Compliance

FCC Part Class A UL 1950 CSA 22.2 GR-499-CORE, GR-253-CORE GR-1089, GR-63 (NEBS Level 3)

### **Dimensions**

Height	
Width	
Depth	
Weight	

1.75" - 1 rack unit 17.15" 13" 8 lbs fully loaded

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