

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 Up to 28 per shelf
Line Rate 1.544 Mbps ± 32ppm
Line Code Selectable AMI/B8ZS
(per channel)

AIS Line Rate 1.544 Mbps ± 32ppm

Redundancy 1:1

Line Impedance 100 ohm, nominal balanced

Pulse Amplitude 2.4V to 3.6V
Cable ABAM or equivalent
Span 655 ft. to cross-connect
(50 ft in XT environments)

DS3 Electrical Interface

Number of Duplex Lines 1 per shelf

Line Rate 44.736 Mbps ± 20 ppm Line Code B3ZS (Bipolar three zero

substitution)

Framing P-Bit (M13) or C-Bit

Redundancy 1:1

Line Impedance 75 ohm, unbalanced

Pulse Amplitude .45V to .90V

Cable 728A, RG-6/U, 734U, 735U Span 450 ft. to cross-connect (728A)

(50 ft in XT environments)

Power Level -2.7dBm to +4.7dBm

DS3 Optical Interface

Number of Duplex Lines 1 per shelf

Line Rate $44.736 \text{ Mbps} \pm 20 \text{ ppm}$

Line Code Proprietary
Redundancy 1+1

Cable 1310nm single mode

Span 25 Km

Loss Budget Dynamic range 31dBm Power Level -8dBm to -15dBm

Interfaces

DS3 Electrical BNC, male
DS3 Optical SC connector
T1 64 pin Amp, female
Craft/Modem/PPP 8 pin modular, female

Ethernet/TELNET 10Base-T Alarm Contact Wire wrap

Power Dual feed terminals

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 -41.5 to -56.3 Vdc

Power Consumption Electrical 32 Watts maximum

Optical 48 Watts maximum

Current Draw 0.75 Amps typical Recommended Fuse 2-3 Amps

Environmental

Operating Temperature -40°F to 149°F (-40°C to 65°C)
Relative Humidity Up to 90%, non-condensing
Altitude Up to 10,000 ft. above sea level

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 1.75" - 1 rack unit

Width 17.15" Depth 13"

Weight 8 lbs fully loaded

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