

Featu

E1 line

costs

'es

and backhaul

Link redundancy
Integrated T1 CSU's

capability

Time-slot level circuit grooming

Fractional T1 or E1 transmission

Drop/Insert channels within a T1 or

Consolidates traffic to minimize line

Edge Link 410

Coperine 4410

T1 or E1 splitting and time slot shifting for multi-service applications

Unidirectional time-slot broadcast

- Performance monitoring and remote management via SNMP or a built-in remote access system
- Multipoint management control channel addresses several EdgeLink410 units using a single channel. Bandwidth costs are significantly reduced.



Compact Digital Cross-Connect Switch

Reduce T1 line costs by 50% or more

Telco Systems'EdgeLink410, a compact 4-port T1 or E1 digital cross-connect switch, is ideally suited to a variety of network applications. Any time-slot can be mapped to any other time-slot for fully non-blocked circuit routing. Advanced features include linkredundancy, remote management and performance monitoring. For wireless applications, small size (1rack mounting space x 12 inch depth) and front access to all connectors make EdgeLink410 suitable for the smallest cell site and base station installations. Additionally, a wide operating temperature range (-20°C to +70°C) makes EdgeLink410 the perfect choice for outdoor installations.

Cross-Connect Versatility

EdgeLink410 can cross-connect any 64 Kbps time-slot from any of its four ports to any other port. Non-volatile memory stores up to four routing configurations (1 active, 3 backup). Any routing configuration can be invoked immediately to respond to link failure, high error rate or time-of-day, providing protection switching functionality. **Flexiblity = Value**

EdgeLink410 offers unmatched flexibility for T1 and E1 transmission networks:



Specifications

Time-Slot Grooming and Backhaul

EdgeLink410 is the right product for minimizing T1/E1 line costs. Lightly loaded lines can be consolidated into a full line and circuits from multiple sites can be consolidated into a single line and backhauled to a main site. Many locations will contain several network elements, each requiring only a few channels. PBX's, voice messaging systems, routers, etc. can share the same T1 or E1 facility using EdgeLink410 to split the line and shift time slots to consolidate traffic.

T1 Interface

Line Rate: Line Code: Framing: Equalization: Line Impedance: Synchronization: Performance Monitoring:

LED Alarm Indicators: Alarm Contacts: Connectors: Loopback:

Regulatory: E1 Interface

Line Rate: Line Code: Framing: Equalization: Line Impedance: Synchronization: Performance LED Alarm Indicators: Alarm Contacts: Connectors: Loopback: Regulatory:

Data Ports

Data Rate: Interface: Connectors:

VT100:

Remote Access:

System Management

Embedded SNMP Management PPP Local Craft VT-100/ANSI Terminal (Menu-driven) Office Alarms (Major, Minor) **Cross Connection** Routing Tables: Protection Switching: Power Requirements DC Power Input: Power Consumption: Environmental 10 watts -20° to $+70^\circ$ C Operating temperature: Humidity: **Dimensions** Height: Width: Depth: Mounting: LAN Interface:

1.544 Mbps, +/- 30 ppm AMI/B8ZS D4, ESF, per TR54016 and TR62411 DSX-1, CSU line build out A,B,C 110 ohm, balanced Internal, or external from any T1 port ANSI T1.403, last 24 hours of data in 15 minute intervals Monitors all net work ports Red (T1 Major Alarm), Yellow (T1 Minor Alarm) Dry Form C, Major/Minor RJ48C Local and remote per T1 port generates and responds to Loop-Up and Loop-Down commands as defined in T1.403 FCC Part 15, Class B FCC Part 68 DOC CS-03 UL 1950, CSA

2.048 Mbps, +/- 50 ppm HDB3 ITU G.704 up to 6 dB cable loss 75 ohm, unbalanced or 120 ohm, balanced Internal, or external from any E1 port Monitoring: ITU G.821 Red (E1 Prompt Alarm), Yellow (E1 Service Alarm) Dry Form C, Prompt/ Service BNC (75 ohm), RJ45 (120 ohm) Local and remote per E1 port BAPT 221 ZV MU9, IEC 950 EN41003, EN5022 Class B, EN50082-1, EN5082-2, EN60950 CTR 12/13, NTR 4

Nx56/64 Kbps, N = 1 to 24 or 1 to 30 channels DCE synchronous V.35, RS449 and RS530 interfaces provided DB37, with cables providing Winchester 37 pin (V.35), DB25 (RS530), DB37 (RS449)

4 routing tables (1 active, 3 backup) Upon T1/E1 alarm conditions, time-ofday or manual intervention

+/- 20 to +/- 60 VDC

to 95% non-condensing

1.75 in. / 4.45cm 17 in. / 43.2 cm 12.75 in. / 32.4 cm 19 inch or 23/24 inch equipment rack 10BaseT port, PPP port RS232 port, 9600 bps, RJ12 connector Via multipoint management channel (64 Kbps for SNMP, 9600 bps for VT100) Management channel echoed on all T1 ports.

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