

Features

- ❖ 8 T1/E1 ports in 1 rack space
- ❖ Integrated T1 CSU's
- ❖ Combined digital cross-connect and data multiplexer
- ❖ Front access to all field connections
- ❖ Temperature hardened
- ❖ Reduces T1/E1 costs by 50% or more
- ❖ Optimizes T1/E1 backhaul networks
- ❖ Saves valuable equipment space
- ❖ Saves cost of external CSU's
- ❖ Helps maintain high quality of service and satisfied customers

Edge Link 810



Compact T1/E1 Access Platform

Integrate T1/E1, V.35/RS422 access into a single compact unit! EdgeLink810 is an intelligent high-speed platform that integrates digital cross-connect switching and data port access into a compact package. Engineered for high reliability and wide operating temperature range, the EdgeLink810 is ideal for edge-of-network grooming and backhaul, especially in environmentally harsh conditions. The unit occupies only one rack mounting space, which in combination with front access to all field connections, makes EdgeLink810 suitable for the smallest cell site and base station installations. EdgeLink810 is the smallest 8 port cross connect available. Wireless network operators, Internet Service Providers (ISP's) and carriers can deploy EdgeLink810 in a variety of applications. These include wireless base station backhaul, E911 services, subscriber location and public network inter-connection over T1/E1 or high-speed data circuits. EdgeLink810 can also be used to protect T1/E1 lines for disaster recovery and alternate path solutions. EdgeLink810 supports all transport systems and can be directly connected to leased T1/E1 lines using built-in CSU's.

Compact Size = Flexibility

Two module slots provide support for 8 x T1 or E1 cross-connect switching or combinations of T1/E1 cross-connect switching and data port terminations.

Specifications

T1 Interface

Line Rate:	1.544 Mbps, +/- 30 ppm
Line Code:	AMI/B8ZS
Framing:	D4, ESF, F† per TR54016 and TR62411
Equalization:	DSX-1, CSU line build out A,B,C
Line Impedance:	110 ohm, balanced
Synchronization:	Internal, or external from any T1 port
Performance Monitoring:	ANSI T1.403, last 24 hours of data in 15 minute intervals Monitors all network ports
LED Alarm Indicators:Red	(T1 Major Alarm), Yellow (T1Minor Alarm)
Alarm Contacts:	Dry Form C, Major/Minor
Connectors:	RJ48C
Loopback:	Local and remote per T1 port generates and responds to Loop-Up and Loop-Down commands as defined in T1.403
Regulatory:	FCC Part 15, Class A (Class B pending) FCC Part 68 DOC CS-03 UL 1950, CSA

E1 Interface

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

Data Ports

Data Rate:	Nx56/64 Kbps, N = 1 to 24 or 1 to 30 channels
Interface:	DCE synchronous V.35, RS449 and RS530 interfaces provided
Connectors:	Winchester 37 pin (V.35), DB25 (RS530), DB37 (RS449)

System Management

Embedded SNMP Management
TELNET
PPP
Local Craft VT-100/ANSI Terminal (Menu-driven)
Office Alarms (Major, Minor, Critical, Far End)

Cross Connection

Routing Tables:	8 routing tables (1 active, 7 backup)
Protection Switching:	Upon T1/E1 alarm conditions, time-of-day or manual intervention

Power Requirements

DC Power Input:	+/- 20 to +/- 60 VDC
Power Consumption:	12 watts

Environmental

Operating temperature:	-20° to +70° C
Humidity:	to 95% non-condensing

Dimensions

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

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