IP•ExpressMLE•DI
Engage Communication

• IP E1 WAN Router with Integrated Drop and Insert Mux •

IP•ExpressMLE•DI is a Wide Area Network router that routes the Internet Protocol through aN E1 Interface that is Multiplexed with a built-in **Drop and Insert Mux**. **Point to Point** and **Frame Relay** Wide Area Networking Protocols, with 24/7 proven interoperability, are fully supported on the E1 channels allocated to the internal WAN Router.

IP•ExpressMLE•DIs are very reliable, high performance and cost effective solution for simultaneously interconnecting Remote LANs and E1 based Telecommunication Equipment over a single E1 link. A WAN Router, E1 Drop and Insert Interface and a long haul E1 DSU/CSU are integrated to create a complete **E1 Data and Voice Multiplexor**.

Interconnect Remote LANs and Phone Systems Over Single E1

IPExpressMLE•DIs are used to connect Branch Office PBXs and Phone switches to an organizations headquarter's Phone System, which has access to the PSTN, to save money on Local Access Phone charges and interoffice calls. The remote LAN interconneciton to the HQ LAN is utilized for centralized database access, shared file servers, print servers, etc...

Teleconferencing Equipment Interconnect

IPExpressMLE•DIs provide E1 based Teleconferencing Applications with a very cost effective solution to share a E1 connection with the LAN.

Remote Management of Telecommunication Switches

IPExpressMLE•DIs enable Telecommunication Service Providers to remotely manage their Telecommunication Switches over their E1 connection. Allocation of E1 bandwidth to the LAN interface provides for an always on IP based network connection to the Ethernet Management interfaces of the Telecommunication Switch.

CLEC CPE for Internet Access and PBX Connection to the PSTN

IPExpressMLE•DIs are the ideal Customer Premise Equipment for **Competitive Local Exchange Carriers** that are provisioning Internet Access and PBX Connection to the Public Switch Telephone Network. The **IPExpressMLE•DI** connects the customers LAN and PBX to the CLECs E1 access line in a single piece of equipment.

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• **IPExpressMLE•DIs** are managed with a straight forward Command Line Interface that is accessed from the console port or through a Telnet Connection. Configuration templates provide for an edit and paste configuration. Upgrades are performed online with **TFTP**.

Network Security is facilitated with Full On Source, Destination Add`ress; Port and Flag IP Packet filtering. Remote location interconnectivity is able to be selectively controlled at the network, device and application layers.

Technical Specifications

LAN Network Interface:
  • One10BaseT Ethernet

LAN Network Protocols Supported:
  • TCP/IP (IP, TCP, UDP, RIP, ICMP, BOOTP, DHCP)

WAN Network Protocols Supported:
  • PPP (RFC 1548, RFC 1332, RFC 1334, PAP)
  • Frame Relay (ANSI ANNEX D, LMI, RFC 1420)

E1 Network Specifications:
  • Framing - CRC4 or FAS
  • Coding - HDB3 or AMI
  • Supports DS0 assignments from 1 to 31

DS1 Drop and Insert Specifications:
  • Framing - CRC4 or FAS
  • Coding - HDB3 or AMI
  • Supports DS0 assignments from 1 to 31
     (64Kbps to 1.984Mbps)

TFTP Online Upgrade Capable (FLASH ROMs)
  • Router is fully operational during upgrade

Management:
  • Telnet support with Edit and Paste Template Files
  • Console Port for Out of Band Management
  • SNMP support (MIB I, MIB II)
  • Remote configuration, monitoring, & reset
  • View routing, line statistics, Frame Relay DLCIs, ...

Network Security:
  • Administrator Password
  • Full TCP/IP Filtering
       • Source and Destination Address; Port & Flags

Power:
  • 24VAC, 1.0A; International Adapters Available
  • Optional 24DC, 2.0A

Dimensions:
  • 9" (L) x 5.5" (W) x 1.50" (H)

Back Panel

E1-1: E1 DSU/CSU Telco 120 Balanced Interface
-RJ45 to DB15 Male Cable and Adapter Provided

Console Port Connector
• RJ 45 to DB 9 Male Adapter provided

E1-2: E1 Drop and Insert Interface for
Telecommunication Equipment interconnectivity

Standard 10BaseT
Ethernet interface

DB25 connector is a Synchronous
V.35/RS530/RS232 DCE Interface