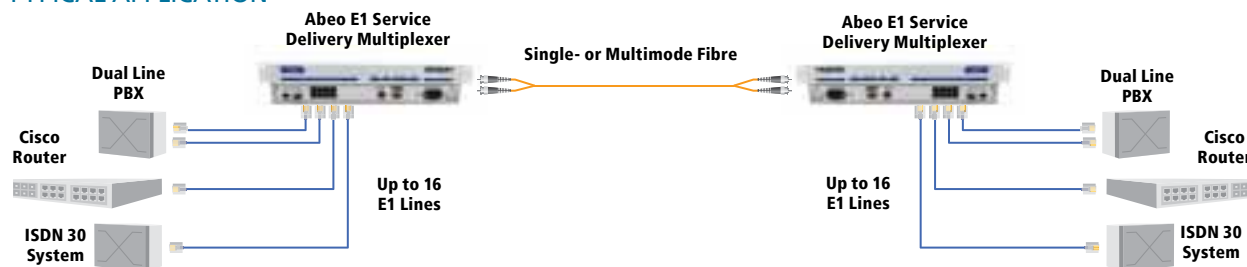Abeo E1 Service Delivery Multiplexer

High performance E1 service delivery multiplexer.

FEATURES

» 4, 8 or 16 E1 interfaces.
» Dual 1+1 Optical Line interface using SFP(LC)s.
» 1U, 19" rackmount unit.
» Extensive diagnostic and test capabilities.
» SNMP Management (Local & Remote).
» G.821 performance analysis.
» Extensive statistics & performance monitoring.
» Integral auto-sensing PSU, optional -48VDC supply.

TYPICAL APPLICATION

OVERVIEW

The Abeo E1 Service Delivery Multiplexer enables the delivery of up to 16 E1 services over a fibre infrastructure. The unit is available with 4, 8 or 16 E1 ports and has dual 1+1 redundant fibre line interfaces.

The resilient 1+1 interface is presented as dual SFP modules allowing users to change fibre interface depending on their network topology. The use of 1+1 redundancy permits continuous operation even when a fibre fault occurs. Switch over from the Working to the Protection fibre is automatic. The use of SFP modules enables many types of fibre to be supported, including single-mode, multimode, bi-directional and CWDM.

The units are managed using either a local terminal with a simple menu based user interface, or alternatively using Telnet or SNMP via the local 10BASE-T LAN port; or In-Band over the line interface. Extensive diagnostic and test features include Loopbacks and Test Pattern generators to ease the resolution of any service problems. Extensive performance monitoring statistics are collected and stored for up to 24 hours in 15 minute intervals.

TFTP is available to upgrade both application software and FGPA firmware, thus enabling the units to benefit from any future development.

Item	Code
Abeo E1 Service Delivery Multiplexer	
4-Port E1, AC Powered	**MXU1204**
4-Port E1, DC Powered	**MXU1204-DC**
8-Port E1, AC Powered	**MXU1208**
8-Port E1, DC Powered	**MXU1208-DC**
16-Port E1, AC Powered	**MXU1216**
16-Port E1, DC Powered	**MXU1216-DC**
To connect the fibre	
Small Form Factor Pluggable (SFP) Optical Transceivers	
Multimode, 2km	**MXU1200**
Single-Mode, Short-Haul, 10km	**MXU1201**
Single-Mode, Long-Haul, 40km	**MXU1202**

TECH SPECS

E1 Interfaces:
Presentation — RJ-45, NT Interface
Standard — G.703, 120ohm balanced at 2.048 Mbps
Coding — HDB3
Clock Mode — Through
Number of Ports — 4, 8 or 16 E1 Interfaces
Diagnostics — Internal, External loopback
Test Mode — 2^15 ITU Test Generator/Receiver
Alarms — LOS, AIS
Errors — BPV
Operating Temperature — 0 to 50°C
Operating Humidity — 95% RH noncondensing
Pressure — 86 - 106 kPa
Safety Compliance/Approvals — EN41003, EN60950
EMC Compliance/Approvals — EN55022, EN50082

Fibre Line Interface:
Presentation — Dual SFP (LC)
Standard — Supports 100BASE-FX, STM-1/OC-3, SFP (LC)
Coding — NRZ
Clock Mode — Internal, Loop, E1
Scrambling — X48, X3 or None
Redundancy — 1+1
Switch-over — Less than 50ms from fault detection
Diagnostics — Internal, External loopback
Test Mode — 2^23 ITU Generator/Receiver
Alarms — LOS, SYNC, AIS
Operating Humidity — 95% RH noncondensing
Pressure — 86 - 106 kPa
Safety Compliance/Approvals — EN41003, EN60950
EMC Compliance/Approvals — EN55022, EN50082