

FMUX160 FMUX80

16 or 8x E1/T1 + 4 x 10/100 Ethernet
Fiber Multiplexer

NEW



The FMUX160/FMUX80 is 1U 19" rack mountable, PDH fiber optical Multiplexer that transmits up to 16/8 E1/T1 + 4 x 10/100Base-T(X) Fast Ethernet over a single fiber optic link. The FMUX160/FMUX80 chassis is available in five different power configurations; single AC, single DC, dual AC, dual DC, or AC+DC. The AC supplies operate from 90 ~ 240VAC while DC supplies operate from 18~72VDC. On the rear of the chassis, the BNC model provides 32/16 unbalanced 75 Ohm coaxial connections with BNC connectors while the RJ-45 model provides 16/8 balanced 120 Ohm connections over twisted pair wiring with RJ45 connectors. The FMUX160/FMUX80 gives you the fiber cabling connector ST SC FC, both multi-mode and single-mode are available as well as BiDi which allows bi-directional transmissions using only a single fiber cable. 1+1 Automatic optical line protection is also supported for the aggregate fiber ports. The standard FMUX160/FMUX80 configuration may be viewed or set via serial VT-100 terminal connection or SNMP card with web, telnet, and SNMP management

Features

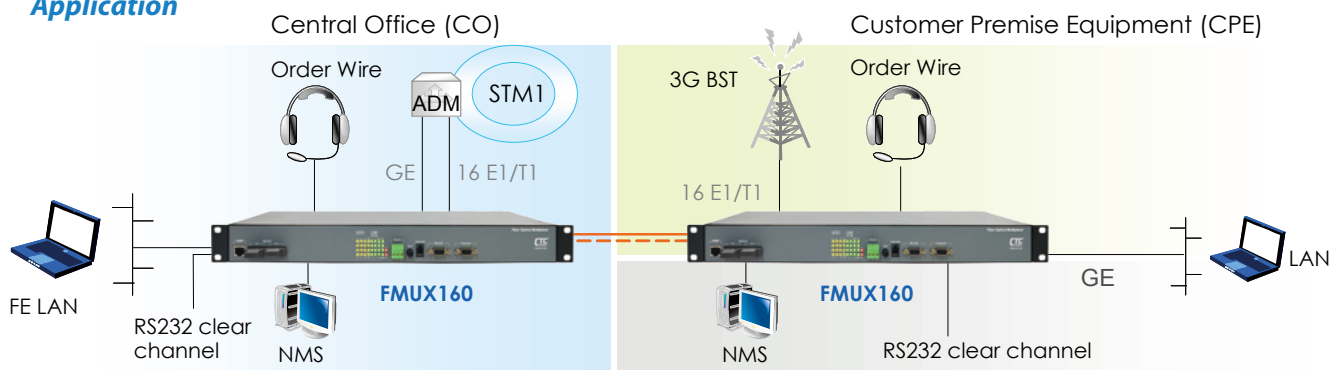
- Provides 16/8 E1/T1 G.703 transparent transmission over the fiber
- Provide 4 x 10/100 Mbit/s Ethernet Ports (100Mbps aggregate)
- Provides one RS232 channel ; Loopback test on E1/T1, fiber port
- Provides one hotline channel (order-wire)
- Supports full/half duplex, 10M/100M, auto-Negotiation
- Supports IEEE802.1q tagged and port based VLAN
- Forward 1792 byte packets on Ethernet port
- Supports 1+1 fiber line protection. Less than 50ms
- Complete alarm function and can monitor remote device status;
- Power combination AC220V and DC-48V for redundant options;
- Supports RS232 local management ; Supports on-line f/w upgrade
- Supports Web, Telnet, SNMP management (options)

Specifications

Optical Interface	Connector	ST, SC, FC
	Data rate	155.52Mbps
	Bit Error Rate	Less than 10 ⁻¹¹
	Distance	MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km
	Wavelength	1310nm, 1550nm, CWDM 1471nm~1611nm
Electrical Interface	Connector	Console : RS232 ; SNMP : RJ45 Ethernet : RJ45 (4-port) Alarm : RS232 ; Order wire : RJ11

Standards	ITU-T G.703, G.823 and G.742, ANSI, AT&T, IEEE803.2, IEEE802.3u
Indications	Power, Alarm, LBK, RD, LCK, RNG, ACO, Port, channel
Power Input	100 ~ 240VAC, 20~60VDC, 36~72VDC
Power Consumption	<40W
Dimensions	250 x 438 x 43mm (D x W x H)
Weight	3.58kg
Temperature	0 ~ 60°C (Operating), -10 ~ 70°C (Storage)
Certification	CE, FCC, LVD, RoHS

Application



Ordering Information

Chassis

Model Name	Description
FMUX160B-AC	16x E1 BNC + 4 x 10/100Base-T(X) Ethernet fiber multiplexer, built-in AC power
FMUX160B-DC	16x E1 BNC + 4 x 10/100Base-T(X) Ethernet fiber multiplexer, built-in DC power
FMUX160B-AD	16x E1 BNC + 4 x 10/100Base-T(X) Ethernet fiber multiplexer, built-in AC+DC power
FMUX160R-AC	16x E1/T1 RJ45 + 4 x 10/100Base-T(X) Ethernet fiber multiplexer, built-in AC power
FMUX160R-DC	16x E1/T1 RJ45 + 4 x 10/100Base-T(X) Ethernet fiber multiplexer, built-in DC power
FMUX160R-AD	16x E1/T1 RJ45 + 4 x 10/100Base-T(X) Ethernet fiber multiplexer, built-in AC+DC power
FMUX80B-AC	8x E1 BNC + 4 x 10/100 Ethernet fiber multiplexer, built-in AC power
FMUX80B-DC	8x E1 BNC + 4 x 10/100 Ethernet fiber multiplexer, built-in DC power
FMUX80B-AD	8x E1 BNC + 4 x 10/100 Ethernet fiber multiplexer, built-in AC+DC power
FMUX80R-AC	8x E1/T1 RJ45 + 4 x 10/100 Ethernet fiber multiplexer, built-in AC power
FMUX80R-DC	8x E1/T1 RJ45 + 4 x 10/100 Ethernet fiber multiplexer, built-in DC power
FMUX80R-AD	8x E1/T1 RJ45 + 4 x 10/100 Ethernet fiber multiplexer, built-in AC+DC power

SNMP

FMUX-SNMP	SNMP card with 10/100Base-T(X) Ethernet port
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Order Wire Phone

FMUX-Phone	2/4 wires FXS phone card
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Connector Type

Connectivity Distance

SC, ST, FC	002: 2km 015: 15km 030: 30km 20A: WDM 20km A type 20B: WDM 20km B type
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Power Type
FMUX160 -

Example: FMUX160 B - AC