FMUX1600
FMUX800

16E1/T1 + 4x GbE, RJ45 Fiber Managed Multiplexer
8E1/T1 + 4x GbE, RJ45 Fiber Managed Multiplexer
(SNMP, Order Wire Optional)

The FMUX1600/FMUX800 is 1U 19" rack mountable, PDH fiber optical Multiplexer that transmits up to 16/8 E1/T1 + 4 x 10/100/1000Base-T Gigabit Ethernet over a single fiber optic link. The FMUX1600/FMUX800 chassis in 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 . With two SFP sockets on fiber ports, the FMUX1600/FMUX800 gives you the fiber cabling connector SFP-LC, 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 FMUX1600/FMUX800 configuration may be viewed or set via serial VT-100 terminal connection or SNMP card with web, telnet, and SNMP management
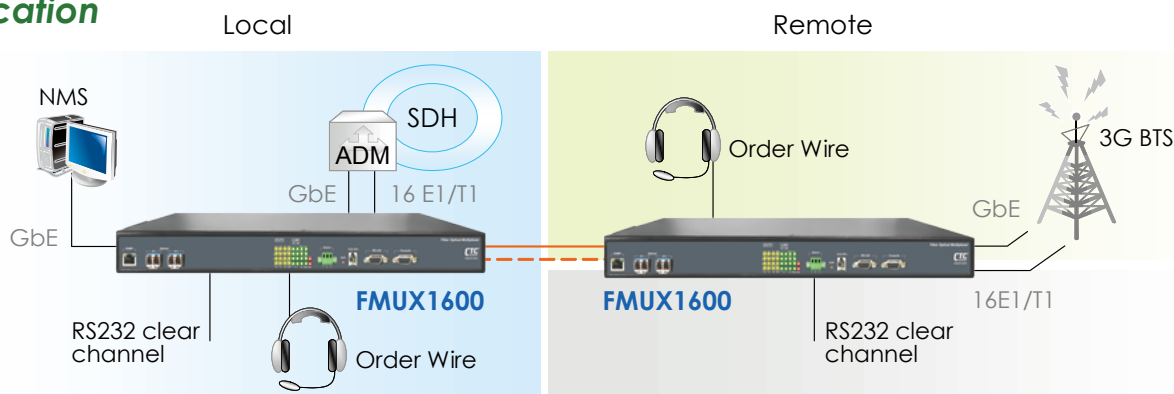
Features

- Provides 16/8 E1/T1 G.703 transparent transmission over fiber
- Provide 4x 10/100/1000 Mbit/s Ethernet Ports
- Provides one RS232 channel
- Loopback test on E1/T1 fiber port
- Provides one hotline channel (order-wire)
- Supports full/half duplex, 10M/100M/1000M, auto-Negotiation
- Forward 10K byte jumbo 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 (optional)

Specifications

Optical Interface	Connector	SFP- LC
	Data rate	1.25Gbps
	Bit Error Rate	Less than 10^{-11}
	Distance	MM 2km, SM 15/30/50/80/120km
	Wavelength	WDM 20/40/60/80km
Electrical Interface	Connector	Console : RS232 / SNMP : RJ45
		Ethernet : RJ45 (4-port)
		Alarm : RS232 / Order wire : RJ11
E1 Interface	Standards	ITU-T G.703, G.704, G.706, G.732
	Ports	8/16 ports
	Data Rate	2.048 Mbps ± 50 ppm
	Line Code	HDB3/AMI
	Connector	RJ-45 for 120 ohms BNC for75 ohms Wire wrap for 120 ohm

T1 Interface	Standards	ITU-T G.703, G.704, AT&T TR-62411, ANSI T1.403
	Ports	8/16 ports
	Data Rate	1.544 Mbps ±50 ppm
	Line Code	B8ZS / AMI
	Connector	RJ-45 for 100 ohms Wire wrap for 100 ohms
Certification		CE, FCC, RoHS compliant
Standards		ITU-T G.703, G.823 and G.742, ANSI, AT&T, IEEE803.2, IEEE802.3u, IEEE802.3ab
Indications		Power, Alarm, LBK, RD, LCK, RNG, ACO, Port, channel
Power Input		100 ~ 240VAC, 20~60VDC, 36~72VDC
Power Consumption		<25W
Dimensions		250 x 438 x 43mm (D x W x H)
Weight		3.58kg
Temperature		0 ~ 60°C (Operating), -10 ~ 70°C (Storage)
MTBF		75,000 hrs

Application

Ordering Information

Model Name	Description
FMUX1600B-AC/DC/AD	16x E1 BNC + 4 x 10/100/1000Base-T Ethernet Fiber Multiplexer, build-in AC, DC or AD Power
FMUX1600R-AC/DC/AD	16x E1/T1 RJ-45 + 4 x 10/100/1000Base-T Ethernet Fiber Multiplexer, build-in AC, DC or AD Power
FMUX1600-SNMP	SNMP Card with 10/100Base-TX Ethernet Port
FMUX800B-AC/DC/AD	8x E1 BNC + 4 x 10/100/1000Base-T Ethernet Fiber Multiplexer, build-in AC, DC or AD Power
FMUX800R-AC/DC/AD	8x E1/T1 RJ-45 + 4 x 10/100/1000Base-T Ethernet Fiber Multiplexer, build-in AC, DC or AD Power
FMUX800-SNMP	SNMP Card with 10/100Base-TX Ethernet Port
FMUX-Phone-2	2 Wires Order Wire
FMUX-Phone-4	4 Wires Order Wire

Power Type

FMUX1600 – ☐ – ☐☐

Example: FMUX1600 – B – DC

FMUX–Phone – ☐

Example: FMUX–Phone – 2

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.