



FMUX1600 FMUX800

16 or 8x E1/T1 + 4x GbE, Managed
Fiber Multiplexer

The FMUX1600/FMUX800 is 1U 19" rack mountable, PDH fiber optical Multiplexer that transmits up to 16/8 E1/T1 + 4x 10/100/1000 Base-T Gigabit Ethernet over a single fiber optic link. The FMUX1600/FMUX800 chassis is available in three different power configurations; single AC, single DC, or AC+DC. The AC supplies operate from 90 ~ 240VAC while DC supplies operate from 18~60VDC. 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
- Provides 4x 10/100/1000 Mbit/s Ethernet Ports and 1x RS232 ch.
- 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)

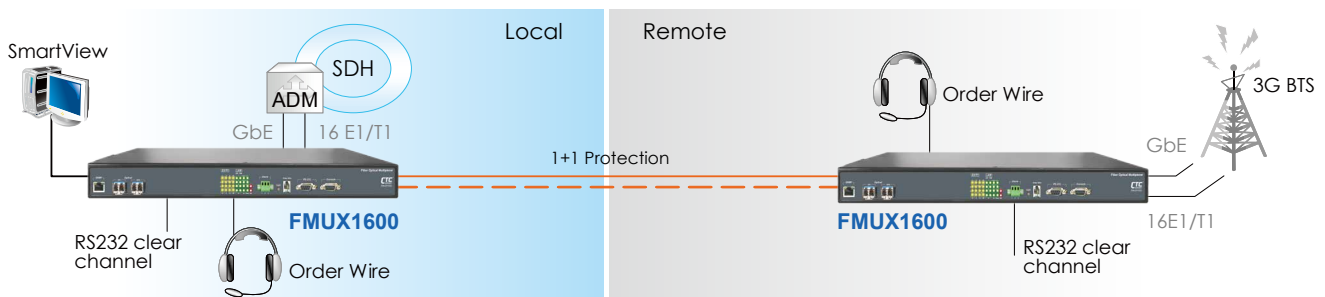
Specifications

| | | | |
|-----------------------------|---------------------|--|----------------------------------|
| 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 | |
| T1 Interface | Connector | RJ-45 for 120 ohms BNC for 75 ohms | |
| | Standards | ITU-T G.703, G.704, AT&T TR-62411, ANSI T1.403 | |
| | Ports | 8/16 ports | |

| | | |
|--------------------------|---|--------------------|
| T1 Interface | Data Rate | 1.544 Mbps ±50 ppm |
| | Line Code | B8ZS / AMI |
| | Connector | RJ-45 for 100 ohms |
| Certification | CE, FCC, RoHS compliant | |
| Standards | ITU-T G.703, G.823 and G.742, ANSI, AT&T, IEEE 803.2, IEEE 802.3u, IEEE 802.3ab | |
| Indications | Power, Alarm, LBK, RD, LCK, RNG, ACO, Port, channel | |
| Power Input | 90 ~ 240VAC, 18~60VDC | |
| 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 | 50,000 hrs | |

Application

Remote 3G BTS connection Application



Ordering Information

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

Option Models

| Model Name | Description |
|---------------|--|
| FMUX1600-SNMP | SNMP Card with 10/100Base-TX Ethernet Port |
| FMUX800-SNMP | SNMP Card with 10/100Base-TX Ethernet Port |
| FMUX-Phone-2 | 2 Wires Order Wire |
| FMUX-Phone-4 | 4 Wires Order Wire |

Note: SNMP option only required in one unit of paired link

E1 Connector Type Power Type

FMUX1600 - □ - □□

Example: FMUX1600 - B - DC

FMUX-Phone - □

Example: FMUX-Phone - 2