iTTelecom
16E1+4FE PDH Fiber Multiplexer

Ittelecom Optical Technology Co., ltd

P/N: ITT-MU8594

Features:

- Based on self-copyright IC
- Modular wide dynamic optical detector
- Provide Console manage interface (RS232)
- Provide two fiber interface 1+1 protect （APS）function ,and ALS（Automatic Laser Shutdown/Reduction）function
- Ethernet interface rate is 10M/100M, half/full duplex Auto-Nego
- Ethernet package size support 1916 byte and 4 Ethernet port could be set separately, and ethernet bandwidth can be setting base on multiple of 32K
- E1 interface comply with G.703, adopts digital clock recovery and smooth phase-lock technology
- Uses standard 2 wire telephone (non-telephone handles) set as engineering order-wire hotline(optional)
- When optical lose signal, it can detect the remote device is power off or fiber is disconnected, and indicates alarm by LED
- The local device can view the remote device working condition
- Provide command the remote interface Loop Back, support local E1 Loop Back function, support E1 LOS and AIS alarm ,ease line maintenance
- The transmission distance is up to 2-120Km without interruption
- Support SNMP manager (SNMP agent inside)
- AC 220V, DC-48V, DC24V can be optional
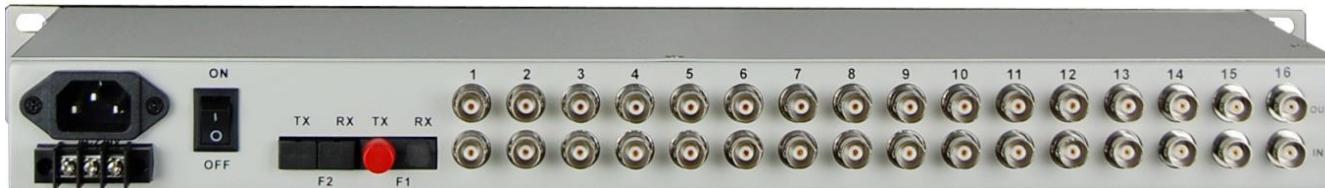- DC-48V/DC24V power supply polarity detection function, Polarity-Free

Description:

The ITT-MU8594 provides 1-16*E1 interface, 1-4*10M/100M Ethernet interface (Wire Speed 100M) and 2 expansion interface. 4* Ethernet interface is switch interface, can support VLAN. 2 expansion interface can be used as the transmission channel of RS232/RS485/RS422 asynchronous data. It is very flexible. It has alarm function. The work is reliable, stable, and low power consumption, high integration, small size.

◆ Fiber

- Optical port：1 , 2
- Optical Fiber：Single/Dual fiber
- Fiber interface：FC/SC/ST/LC(SFP)
- Wavelength：850nm/1310nm Multimode；1310nm/1550nm Single mode
- Relay-free transmission distance: 20~120Km
- Typical transmit power:
- Single mode1310/1550nm：≥-9dB
- Multimode850nm：-18dBm
- Multimode1310nm: -25dBm
- Receive sensitivity range：-28dBm~- 40dBm
- Physical Interface: RJ45 Support Auto-MDIX

◆ E1 interface

- Interface Standard: comply with protocol G.703;
- Interface Rate:2048Kbps±50ppm;
- Interface Code: HDB3;
- E1 Impedance: 75Ω (unbalance), 120Ω (balance);
- Jitter tolerance: In accord with protocol G.742 and G.823
- Allowed Attenuation: 0~6dBm

◆ Ethernet interface(10/100M)

- Interface rate:10/100 Mbps, half/full duplex auto-negotiation
- Interface Standard: Compatible with IEEE 802.3, IEEE 802.1Q (VLAN)
- MAC Address Capability: 4096
- Connector: RJ45, support Auto-MDIX

◆ Working environment

- Working temperature: -10°C ~ 50°C
- Working Humidity: 5%~95 % (no condensation)
- Storage temperature: -40°C ~ 80°C
- Storage Humidity: 5%~95 % (no condensation)

Technical Parameters:

• **Functional Description**	➢ 16E1+4FE PDH ,19''inch 1U, Optional(hotline telephone， Console+SNMP,1+1 fiber back up)
• **Port Description**	➢ 1+1 optical port, 16 E1 interfaces (75/120 ohms), 4 FE interfaces,1*RS232 Console interface,1*SNMP Ethernet interface, one engineering order-wire telephone interface
• **Power**	➢ Power supply: AC180V ~ 260V；DC −48V；DC +24V ➢ Power consumption: ≤10W
• **Dimension**	➢ Product Size: 19 inch 1U　483X138X45mm(WXDXH)
• **Weight**	➢ 3KG