iTTelecom

Ittelecom Optical Technology Co., ltd

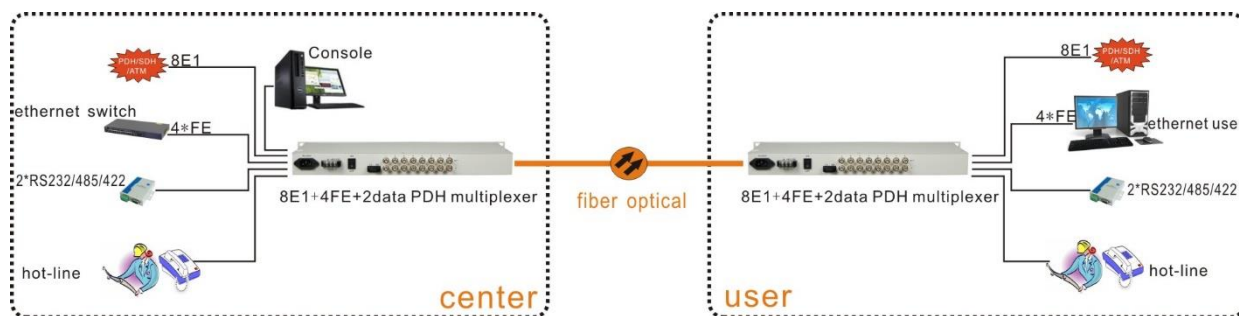## 8E1+4FE PDH Multiplexer

P/N: ITT-MU8593

This device provides 1-8*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.

Features:

- Based on self -copyright IC
- Modular wide dynamic optical detector
- Ethernet (Line Speed 100M) interface rate is 10M/100M, half/full duplex Auto-Nego
- 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)
- Provide 2 expansion interface can be used as the transmission channel of RS232/RS485/RS422 asynchronous data
- 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, ease line maintenance
- The transmission distance is up to 2-120Km without interruption
- AC 220V, DC-48V, DC24V can be optional
- DC-48V/DC24V power supply polarity detection function, Polarity-Free

Technical Parameters:

Functional Description	8E1+4FE PDH, order wire phone, 19"inch 1U, Console interface
Port Description	One optical port, 8 E1 interface (75/120 ohms),4* FE Ethernet interface One Console interface , 2 expansion 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	2.5KG

ITTelecom

Ittelecom Optical Technology Co., ltd

ITTELECOM.CO

Parameters

◆ Fiber

Multi-mode Fiber

50/125um, 62.5/125um,

Maximum transmission distance:	5Km @ 62.5 / 125um single mode fiber,attenuation (3dbm/km)
Wave Length:	820nm
Transmitting power:	-12dBm (Min) ~-9dBm (Max)
Receiver sensitivity:	-28dBm (Min)
Link budget:	16dBm

Single-mode Fiber

8/125um, 9/125um

Maximum transmission distance:	40Km
Transmission distance:	40Km @ 9 / 125um single mode fiber, attenuation (0.35dbm/km)
Wave Length:	1310nm
Transmitting power:	-9dBm (Min) ~-8dBm (Max)
Receiver sensitivity:	-27dBm (Min)
Link budget:	18dBm

◆ E1 Interface

Interface Standard:	comply with protocol G.703;
Interface Rate:	n*64Kbps±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)