64E1+4GE PDH Fiber Multiplexer

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P/N: ITT-PDH-64E14GE

This device is the point-to-point optical transmission device developed on the basis of VLSI. The device provides 1-64*E1 interface, 1-4*10/100/1000M Ethernet interface (Wire Speed 1000M) and 2 expansion interfaces. 4* Ethernet interface is switch interface, can support VLAN. 1 expansion interface can be used as the transmission channel of RS232/RS485/RS422 asynchronous data, dry contact signal, 1Channel EOW phone can be optional. 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
- The Fiber bandwidth is up to 1.5G, Ethernet bandwidth is Wire Speed 1000M
- Ethernet interface rate is 10/100/1000M, half/full duplex Auto-Nego
- 4*Ethernet interface is switch interface, support VLAN, can set to 4 channel logical isolation
- Provide Console manage interface (RS232) (optional)
- Provide two fiber interface(SFP module), 1+1 protect（APS）function (optional)
- 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 2 expansion interface, you can extend 1~2Channel asynchronous data, such as RS232/RS485/RS422/Manchester code;
- 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 2-100Km without interruption
- Support SNMP manager (SNMP agent inside)(optional)
- AC 220V, DC-48V, DC24V can be optional
- DC-48V/DC24V power supply polarity detection function, Polarity-Free

◆ 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

◆ Gigabit Ethernet Interface (10/100/1000M)

Interface rate: 10/100 /1000Mbps, 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)

Model	Model Number:FCP-E64G4
Functional Description	64E1+ 4GE PDH, order wire phone, 19"inch 1U, Console, 1+ 1 Back up Optic fiber,SNMP management
Port Description	two optical interface 1+ 1 port, 64*E1 interfaces (75/120 ohms), 4*GE 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: ≤15W
Dimension	Product Size: 19 inch 1U 483X138X45mm(WXDXH)
Weight	3KG