



### Overview:

The 8E1 fiber optical multiplexer is the 8E1 point-to-point optical transport equipment that uses the FPGA chips and it is easy to upgrade. It is single board structure and the largest transmission capacity is 8E1 and 4\*100M wire speed Ethernet data. the Ethernet bandwidth is set on base on multiple of 32K.. The outer design use the standard 19 inches rack, so the volume is little, weight is light and operation is convenient and credit.

The 8E1 PDH fiber optical multiplexer use the PDH fiber transmission technologies. The 2M (E1) interfaces can connect with the exchanger, light loop device and multi-diplexer directly to form the mircomidi or the special network. Complete alarm function for 8E1, it is stable and easy to maintenance, install and small in size. It has one digital service telephone.

### Technical Specifications:

#### Header :

**Brand : FES**

**Product Line : Forever Engineering Systems Pvt. Ltd.**

#### Features:

- Offer 8E1 digital interfaces
- Offer four 10/100M Ethernet channel for option
- Offer order wire phone for option
- The supervisory control interface implements centralized monitoring and export the monitor and control information of this port and opposite port.
- One link to service telephone for duty contract
- 220VAC & -48VDC power options and the positive and negative of DC-48V can be optional because there is the self-test circuit for the polarity inside th1e device
- Standard 19/9.5 inches rack, little volume, light weight, steady capacity and convenient setup
- Digital clock recovery circuit and digital smooth DPLL adopted for 2.048Mb/s port
- LED indicators
- Has 1+1 fiber protection for optional
- Power supply redundancy : AC220 and DC-48V or DC-24V combination

#### Technical Specifications:

- **Optical interface**  
Optical wavelength: 850nm/1310nm for multi- mode optical interface,  
1310nm/1550nm for single-mode optic interface  
Optical interface: SC/FC

#### CORPORATE OFFICE

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Receiving and dispatching module: >-6dBm  
 Optical receiver receiving sensitivity <-36 (BER<10):  
 Dynamic range receiving: >-30dB  
 Transmitting range: Multi-mode 2 Km, single-mode 40Km, single-mode 60 Km, single-mode 120Km  
 Vibration characteristic: Satisfies G.742 and the G.823 standard

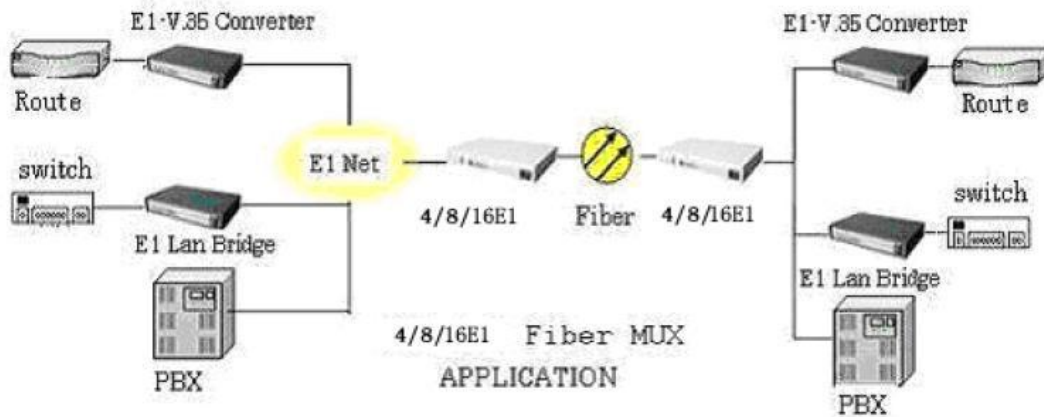
• **E1 interface**

Interface code: HDB3 code  
 Line speed: 2.048Mbps/50ppm  
 Interface standard: ITU-T G 703  
 Interface impedance: 75ohm/unbalanced or 120ohm/ balanced  
 Interface characteristic: supports rack (19 inches, 6U high), can reach up to 24 directions

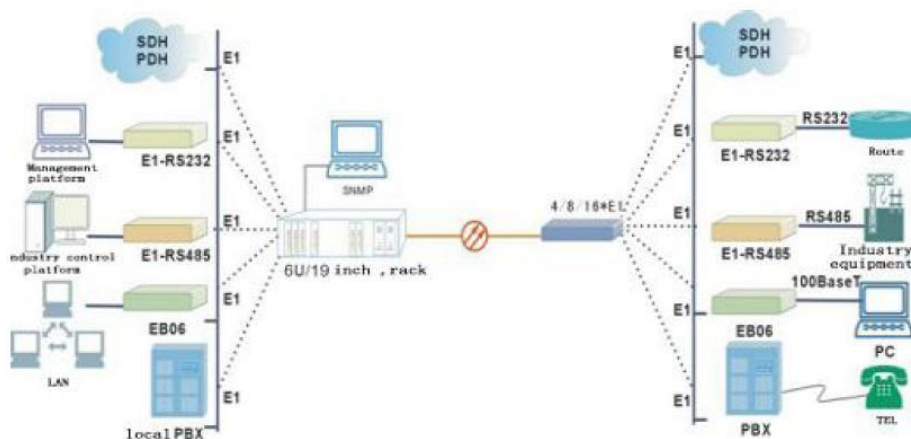
• **10/100M Base-T interface:**

Interface rate:10/100Mbps  
 Interface characteristic: satisfies IEEE802.3, IEEE802.1Q  
 Connector: RJ45

**Application 1:Optical Multiplexer point to point**



**Application 2 : Optical Multiplexer central SNMP management**



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