



## 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
- Uses standard 2 wire telephone (non-telephone handles) set as engineering order-wire hotline(optional)
- E1 interface comply with G.703, adopts digital clock recovery and smooth phase-lock technology

This device provides 1-4\* E1 interface, 1\*10/100M Ethernet interface (Line Speed 100M), Standard 2 wire telephone as engineering order-wire (optional). It is very flexible. It has alarm function. The work is reliable, stable, and low power consumption, high integration, small size.

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- E1 interface comply with G.703, adopts digital clock recovery and smooth phase-lock technology
- When optical signal lost, 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, DC+24V can be optional
- DC-48V/DC+24V power supply with automatic polarity detection function, when installed without distinction between positive and negative

## Parameters

### ◆ Fiber

#### Multi-mode Fiber

50/125um, 62.5/125um,  
Maximum transmission distance: 2Km @ 62.5 / 125um single mode fiber,attenuation (3dbm/km)

Wave Length: 850nm  
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: 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

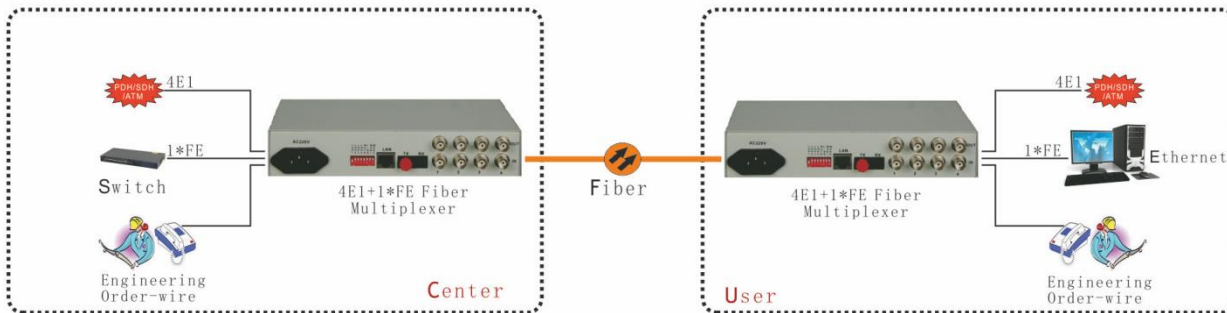
### ◆ Working environment

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

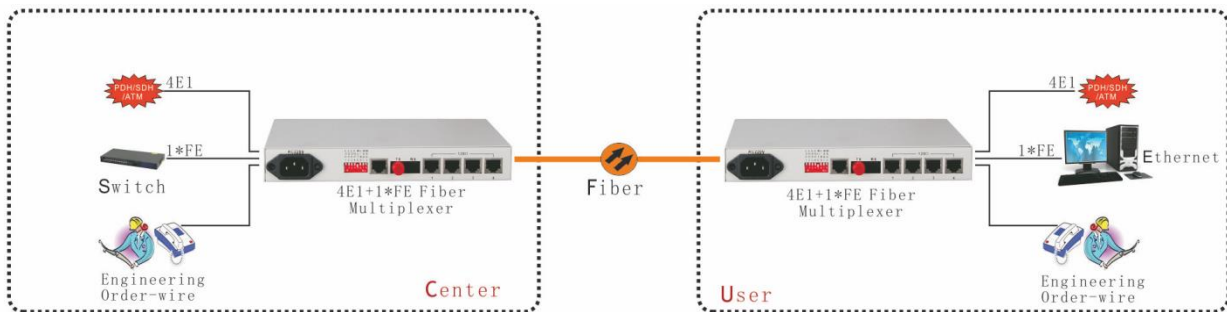
Storage Humidity: 5%~95 % (no condensation)

## Specifications

Functional Description	4E1+1*FE PDH,order wire phone
Port Description	One optical port, 4 E1 interface (75/120 ohms),One FE Ethernet interface
Power	Power supply: AC180V ~ 260V ; DC-48V ; DC+24V Power consumption: ≤10W
Dimension	Product Size: Desk-Top Type 216X138X41mm(WXDXH)
Weight	1.25KG/PCS



75 ohm 4\*E1+1FE PDH



120 ohm 4\*E1+1FE PDH