

## Overview

Model: **TSM-120NET: 4E1+4FE PDH Fiber Multiplexer**

This device provides 1-4\*E1 interface, 1-4\*10M/100M Ethernet interface (Wire Speed 100M) and 2 expansion interface. 4\* Ethernet interface is switch interface, can support VLAN. It is very flexible. It has alarm function. The work is reliable, stable, and low power consumption, high integration, small size.

## Product Photo



75ohm E1



## 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)

- 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: **standard 40km**
- Dual power supply AC 220V, DC-48V, (DC24V can be optional)
- DC-48V/DC24V power supply polarity detection function, Polarity-Free

## Parameters

### ◆ Fiber

#### Multi-mode Fiber

50/125um, 62.5/125um,

Maximum transmission distance:	5Km @ 62.5 / 125um multi 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

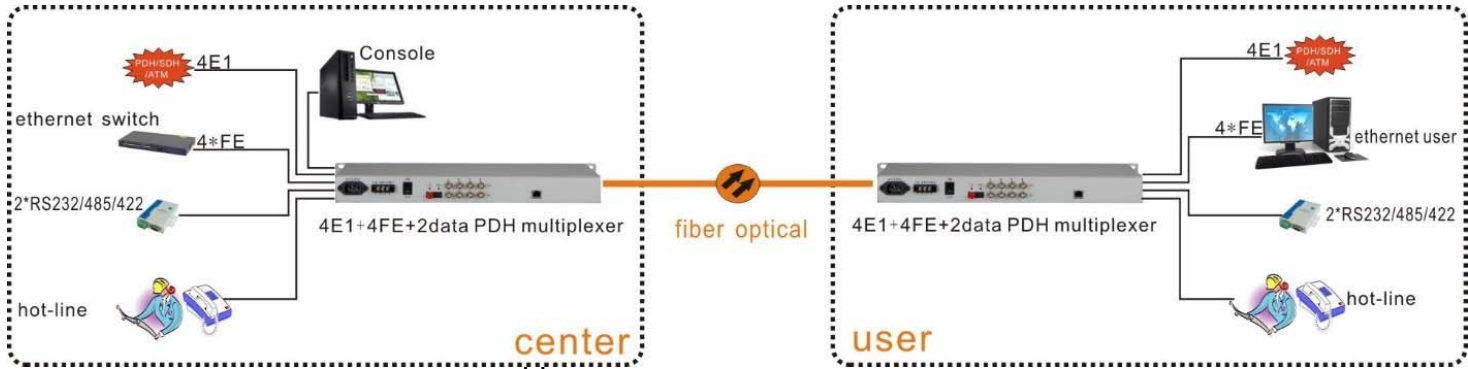
Maximum transmission distance:	<b>40Km</b>
Transmission distance:	40Km @ 9 / 125um single mode fiber, attenuation (0.35dbm/km)
Wave Length:	1310nm
Transmitting power:	-9dBm (Min) ~-8dBm (Max)
Receiver sensitivity:	-27dBm (Min)

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);



### ◆ 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	4E1+4FE PDH, order wire phone, 19"inch 1U, (Standard telephone interface, non-telephone handles) CONSOLE, SNMP managed optional
Description	One optical port, 4 E1 interface (75/120 ohms),4* FE Ethernet interface
Port Description	One Console interface, one SNMP interface , 2 expansion interface, one engineering order-wire telephone interface
Power	Power supply: AC180V ~ 260V ; DC -48V Power consumption: ≤10W
Dimension	Product Size: 19 inch 1U 483X138X44mm(WXDXH)
Weight	19inch 2.3KG

Application :