

## TSM-120NET-16M

**16E1, 4xLAN 10/100Mbps,SFP,SM,DX, 40KM, console+telnet,AC+DC,19"inch**

### *Product Overview:*

**TSM-120NET-16M** is the company developed the PDH optical fiber transmission on the basis of special-purpose VLSI development point to point optical transmission device. It provides 1-16 Channel E1 interface, 1-4Channel 10M/100M Ethernet interface (Line Speed 100M) and 2 expansion interface. 4Channel Ethernet interface is switch interface, can support VLAN. 1 expansion interface can be used as the transmission channel of RS232/RS485/RS422 asynchronous data, voice signal, 2/4 line E&M audio signal, switch signal, Ethernet signal (Bandwidth 2M). It is very flexible to management with snmp, console, telnet and alarm function. The work is reliable, stable, and low power consumption, high integration, small size, easy of installation and maintenance

### *Main features:*

E1:16 ports E1 , 75ohm or 120ohm , BNC or RJ45 ( 120 Ohm Rj45 default)

Ethernet :1-4 port Ethernet ,10/100/1000Mbps,RJ45 ( standard : 4 ports 10/100Mbps)

### *Auxiliary features:*

Audio : FXO/FXS,600ohm,RJ11 , EM2/4

Data : RS232-422-485 ,v.35,RS530 ( option)

Ethernet : VLAN(4 port share bandwidth 2M) ,optional physical isolation (unit port share 2M )

Managed :Local terminal and remote terminal control, LCD, snmp, console, web, telnet

Communication protection: 1+1 fiber back up, Automatic Laser shutdown or reduction function ( option)

### *Standard configuration:*

E1: 16xE1, 120 Ohms RJ45

Ethernet: 4x 10/100 Mbps

Fiber: Single mode dual fiber 40Km ( options: 60km,80km)

Management: Local terminal and remote terminal control, snmp, console, web, telnet

Display: LED

Power: dual power : AC+DC

**Equipment Show:**



Front Panel



Model 1 :Back Panel(75ohm BNC interface)



Model 2 : Back Panel(120ohm RJ45)

**Technical 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: 120Km

Transmission distance: 120KM@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

◆ **Power**

Power supply: AC180V ~ 260V ; DC -48V ; DC +24V

Power consumption: ≤10W

◆ **Dimension**

19 inch 1U : 483 ( width ) X138 ( depth ) X44 ( height ) mm

Net weight : 2.3KG

◆ **Working environment**

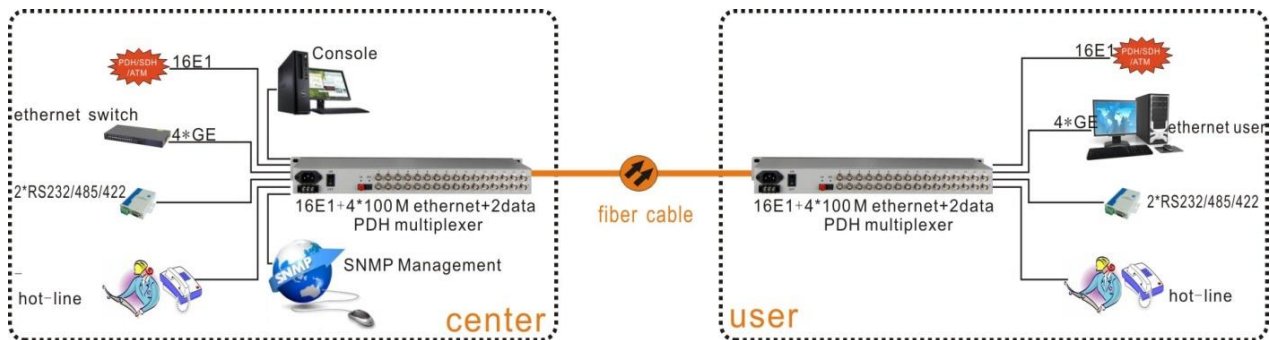
Working temperature: -10°C ~ 50°C

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

Storage temperature: -40°C ~ 80°C

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

*Networking Application:*

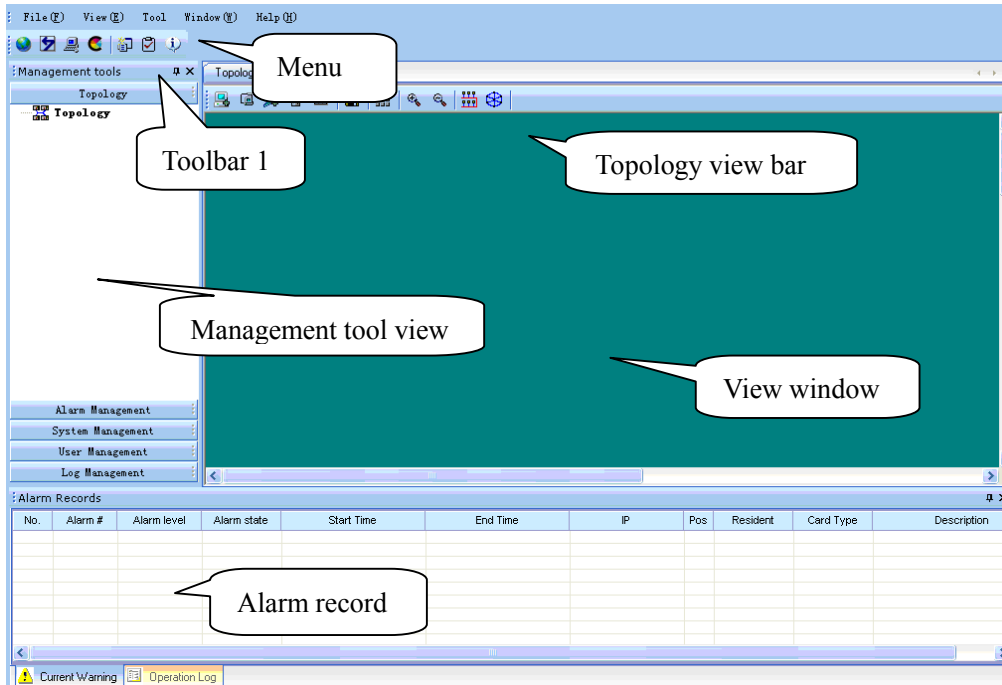


**Management:**

**SNMP**

Snmp management is configured with snmp card and server software. In the local we can managed the remote site by snmp interface.

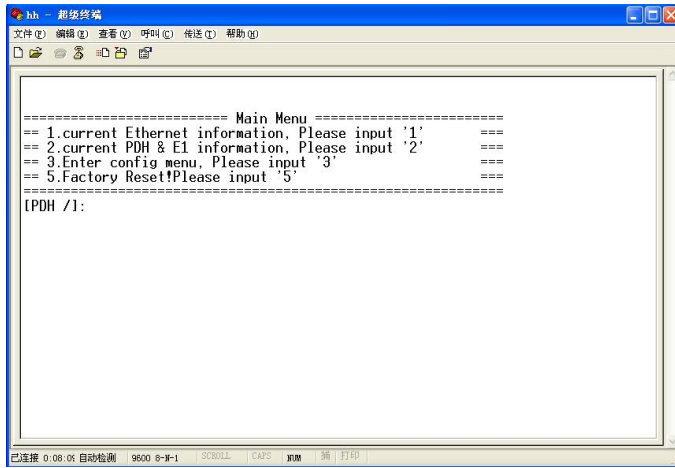
**SNMP INTERFACE**



**Console**

Console port is the local management. Interface type is rj45.it showing as follows:





## Telnet

Telnet main service for remote logins.

