

TSM-120NET+ISO

4E1+4FE (Physical isolation) PDH Fiber Multiplexer

: Overview

This series of equipment is the company developed the PDH fiber transmission dedicated VLSI developed on the basis of point to point optical transmission equipment. Provide 1-4 E1 interfaces, primary and backup fiber optical interface connector, 1-4 physical isolation 10/100M Fast Ethernet interface (independent four-wire speed 100M, total bandwidth is 4*100M), as well as two business expansion interface. 2 Extended service interface can be used as RS232 / RS485 / RS422 asynchronous data (option) , the application is very flexible. Optional one digital service telephone, the application is very flexible. With a sound alarm function, the whole stable, reliable, low power consumption, high integration, small size.

: Product Photo



Features

- Based on self-copyright IC
- 1-4 physical isolation 10/100M Fast Ethernet interface , every FE Ethernet independent wire speed is 100M,total bandwidth is 4*100M;
- Provide Console manage interface (RS232)
- Provide two fiber interface 1+1 protect (APS) function (optional)
- Ethernet interface rate is 10/100M, half/full duplex Auto-Nego
- Ethernet package support jumbo frames,up to 10240 byte
- 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, 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
- 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 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: 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

Model	Model Number: TSM-120NET+ISO
Functional Description	4E1 PDH , 4 * Ethernet physical isolation (total Band width 4*100M) , order wire phone(optional) ,19"inch 1U ,with Console (optional) , SNMP(optional) , 1+1 Back up Optic fiber (optional)
Port Description	1+1 optical port, 4*E1 interfaces (75/120ohms), 4 FE interfaces,
Power	Power supply: AC180V ~ 260V ; DC -48V ; DC +24V Power consumption: ≤10W
Dimension	Product Size: 19 inch 1U 483X138X45mm(WXDXH)
Weight	3KG

Application

