Telesystem

TSM-32E16N8-ISO: 32*Voice +16*E1+ 8*GE (physical isolation) + 4*Serial (option) Port Optical Fiber Multiplexer Specifications

Overview

Model : TSM-32E16N8-ISO

This series of products is point-to-point optical transmission equipment developed based on the dedicated very large scale integrated circuit developed by our company. This product provides 32 Voice interfaces; 1-16 E1 interfaces; 8 Gigabit Ethernet interfaces; each Ethernet electrical port has its own independent Gigabit bandwidth; the total bandwidth of all 8 Ethernet channels is 8000M(8G), through one optical fiber transmits, 8 channels of Gigabit Ethernet signals are completely independent, do not affect and interfere with each other, that is, physically isolated; and have 4 channels of RS232/422/485 interfaces(option); 2 optical interfaces (1+1 optical backup)(option) etc.; the internal circuit part of the equipment adopts all-digital circuits. The whole machine works reliably and stably, with low power consumption, high integration, small size and easy installation and maintenance.

Photo



Features

•19-inch 1U rack-mounted, all-aluminum alloy, anodized casing, fanless heat dissipation design, IP40 protection grade;

•Based on integrated circuits with independent intellectual property rights, the total bandwidth of optical fiber lines is 10G;

• The optical port's non-relay transmission distance can reach 2 to 120 kilometers; it provides 1+1 optical port backup function and dual optical port backup function to ensure uninterrupted business;

• The E1 interface complies with G.703 recommendations and adopts fully digital clock recovery and smooth phase locking technology;

•8-channel Gigabit Ethernet is 10/100/1000M, full/half duplex and fully adaptive. Each Ethernet electrical port has its own independent Gigabit bandwidth physical isolation;

Each Ethernet port supports Auto-MDIX (cross/direct line adaptive);

• Gigabit Ethernet supports the transmission of VLAN ultra-long data packets and can be used with switch products that support the IEEE802.1Q protocol. It can support jumbo frame Ethernet packets with a maximum packet length of 10240;

• 32-channel voice access, supports caller ID function/reverse polarity billing/fax function; the phone supports

32*Voice +16*E1+ 8*GE (physical isolation)



mutual number allocation function for both sites;

• The voice port supports FXO/FXS/24-line EM/24-line audio/magnet telephone interface. The FXO port is connected to the program-controlled switch, and the FXS port is connected to the user's telephone;

• The device has a power-down detection function, which can detect when the optical signal is lost, indicating that the peer device has lost power or the optical fiber is unavailable;

•1 Console management interface (optional); 1 SNMP management interface (optional);

Multiple power supply modes are available: AC220V, DC-48V/DC24V, etc.; supports AC+DC; AC+AC; DC+DC and other dual power supply modes;

Parameters

Fiber

Optical port: 1, 2 (1+1 optical backup) Optical port rate: 10G Optical fiber: single fiber and double fiber Fiber Interface: FC/SC/ST/LC (SFP) Wavelength: 1310nm/1550nm single mode No relay transmission distance: 20~120Km Typical transmit power: Single mode 1310/1550nm: ≥-9dBm Acceptable sensitivity range: -28dBm~- 40dBm

• E1 Interface

Device interface: complies with G.703 Rate: 2048Kb/s ± 50ppm Code: HDB3 Impedance: Unbalanced 75/balanced 120 (Unbalanced type with coaxial interface adapter, can be adapted to 75-2/3 coaxial cable) Jitter characteristics: in accordance with G.742, G.823 Allowed attenuation: 0~6dBm

• E&M 2/4 Line Interface

E&M type: TYPE V E line maximum current: 22mA; Saturation voltage: 3V M line constant current: 7mA; Minimum detection current: 5mA AD gain: 0dB; DA gain: 0dB 2/4 line input impedance: 600Ω

FXS user phone port / business

phone port

Ringing voltage: 75V; Ringing frequency: 25HzTwo-wire input impedance: 600Ω (off-hook) Return loss: 20dB

FXO Trunk Interface

Ring detection voltage: 35VRinging detection frequency: 17Hz-60HzTwo-wire input impedance: 600Ω (off-hook) Return loss: 20 dB

• 10/100/1000M Ethernet Interface

Protocol: IEEE 802.3az compliant, IEEE 802.1Q (VLAN)

Rate: 10/100M adaptive, full/half duplex fully adaptive **MAC address table:** Can learn 4096 MAC addresses **Physical interface:** RJ45 seat, support Auto-MDIX

Magnet Phone Interface

Ringing voltage: 75V Ringing frequency: 25Hz Second-line input impedance: 600Ω (off-hook) Return loss: 20dB

• Electrical and mechanical

properties

System power supply: AC180V ~ 260V; DC-48V; DC+24V (Supports dual power supply redundant backup) Power consumption: ≤20W Appearance structure: 485(length)X200(width)X45(height)mm 19 inches 1U rack type Weight: 3.8Kg/set ♦ Working environment

Working temperature: -10 ° C - +60 ° C Storage temperature: -40 ° C - +85 ° C Working humidity: 0% - 95% (no condensation) MTBF: >100,000 hour



Specifications

Product Number	TSM-32E16N8-ISO
Product Function	Simultaneously transmits 32 physically isolated voice channels + 8 physically isolated GE
Description	channels + 16 E1 channels on the 1+1 optical fiber
Service Port	0 entired fiber interference 20 vision interference 46 E4 interference 9.0E Ethernet: 4 enviol neutr
Description	2 optical fiber interfaces; 32 voice interfaces, 16 E1 interfaces, 8 GE Ethernet; 4 serial ports
Power Supply	AC220V / DC-48V / DC+24V (power supply optional)
Product Size	485mm (length) x 138mm (width) x 45mm (height); 19inch 1U rack mount type
Weight	3.8kg/set

Application

