



**Model: TSM-8PCM: PCM mux 8\*FXO/FXS+1\*FE SFP single Fiber Mux (Desktop Type)**

## Overview

This series is based on the company's proprietary research on VLSI, developed point optical transmission equipment. This product provides 1~8channel telephone; one\* Fast Ethernet interface, support VLAN division. With a sound alarm function, the whole stable, reliable, low power consumption, high integration, small size.

## Features

- Based on proprietary integrated circuit;
- 1 ~ 8channel voice access, support caller ID function and reverse polarity billing functions;
- 2\* Ethernet interface, the rate of 10M / 100M/1000M, full / half duplex adaptive, two\* Ethernet can be set to logical isolation;
- Voice port supports FXO and FXS port, EM2/4 audio interface, FXO port docking with program-controlled switchboard, FXS port connected to the user's telephone;
- Support Telephone Number mutual function of each site;
- optical port unrepeated transmission distance of up to 2 to 120 km;
- Data interface provide the lightning-protection function, which can reach the IEC61000-4-5 (8/20 $\mu$ s), CM (6KV)
- Multiple power mode options: AC220V, DC-48V / DC24V, etc;
- optional: DC-48V / DC24V 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	5Km @ 62.5 / 125um single mode fiber, attenuation (3dbm/km)
Wave Length	820nm
Transmitting power	-12dBm (Min) ~-9dBm (Max)

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Receiver sensitivity	-28dBm (Min)
Link budget	16dBm

**Single-mode Fiber**

8/125um, 9/125um

Maximum 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

## ◆ 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

## ◆ FXS Phone Interface

Ring voltage	75V
Ring frequency	25HZ
Two-line Impedance	600 Ohm (pick up)
Return loss	40 dB

## ◆ FXO Switch Interface

Ring detect voltage	35V
Ring detection frequency	17HZ-60HZ
Two-line Impedance	600 Ohm (pick up)
Return loss	40 dB

## ◆ EM 2/4 Line

AD	0dB
DA	-3.5dB
Two/Four-line Impedance	600 Ohm
Return loss	20 dB

## ◆ 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	TSM-8PCM
Functional Description	8*POTS (FXO/FXS/2 wire Voice) +2*FE Ethernet Over Fiber, Desktop Type
Port Description	One Fiber interface ; 8*POTS ; 2*FE/GE
Power	Power supply: AC180V ~ 260V ; DC -48V ; DC +24V Power consumption: ≤10W
Dimension	Product Size: 136X131X31mm (WXDXH)
Weight	1.2 KG

## Application

