8FXO/FXS +8E1+4FE Fiber Optical Multiplexer

Overview

This device provides 8Channel telephone,1-8Channel E1 interface, 4Channel 10M/100M Ethernet interface (Wire Speed 100M) and 4 expansion interface. 4Channel Ethernet interface is switch interface, can support VLAN. 4 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.

Features

➢ Based on self -copyright IC

➢ E1 interface comply with G.703, adopts digital clock recovery and smooth phase-lock technology Voice port supports FXO and FXS port,

➢ Support FXO/FXS, EM2/4 audio, Magnet telephone Interface, FXO port docking with program-controlled switchboard, FXS port connected to the user's telephone;

➢ 1~8channel Voice access, supports caller ID feature and reverse polarity billing functions

➢ Support various sites mutual number allocation function

➢ Provide 4 expansion interface, you can extend 1~4Channel asynchronous data, such as RS232/RS485/RS422/Manchester code;1~4Channel voice, 1~8Channel switch or two/four line audio and so on

➢ Ethernet interface supports10M/100M, half/full duplex auto- adaptable, support VLAN

➢ 4Channel Ethernet interface is switch interface, support VLAN, can set to 4 channel logical isolation

➢ Ethernet interface can support AUTO-MDIX (crossed line and straightly connected line self-adaptable)

➢ Telephone interface with lightning protection, lightning reached IEC61000-4-5 Short circuit current wave 8 / 20μs, the peak output voltage 6KV open standards.

➢ The transmission distance is up to 2-120Km without interruption

➢ AC 220V, DC-48V, DC24V can be optional

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:	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(100/100M)

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
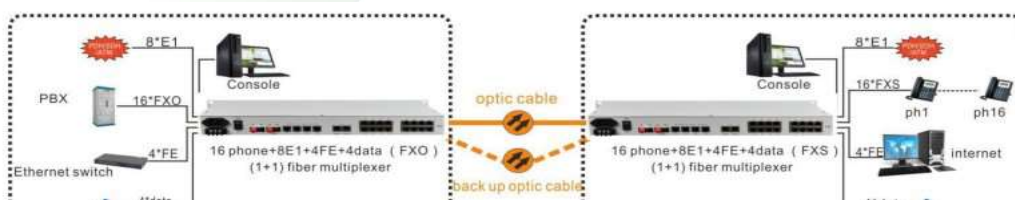
FXO Phone Interface
Ring voltage: 75V
Ring frequency: 25Hz
Two-line Impedance: 600 Ohm (pick up)
Return loss: 40 dB

FXS 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 ~ 60°C
Working Humidity: 5% ~ 95 % (no condensation)
Storage temperature: -40°C ~ 80°C
Storage Humidity: 5% ~ 95 % (no condensation)

Specifications

Model	OP-8E1+4ETH+8VO
Functional	8 * telephone , 8E1 , 4* FE Ethernet , Console management , Support 6U
Description	rackmount , One or Two Fiber interface , 4*RS232/422/485
Power	Power supply: AC180V ~ 260V ; DC –48V ; DC +24V Power consumption: ≤10W
Dimension	Product Size: 485X138X45mm(WXDXH) 19 1U
Weight	2.4KG