

Modular Multi-Service Fiber Multiplexer

Overview

This device is modular structure point-to-point optical transmission equipment with LCD display, uses the FPGA chips and easy to upgrade. The Main board provides 4*100M channel Ethernet data and 2 AUX port which is for transmitting other data such as RS232/RS485/RS422, two optical interfaces for optional 1+1 auto protection switch (APS).

4 slots of tributary with variant plug-in modules which included 4xE1 channels module, 4xFXO/FXS module and 2x Nx64K V.35 module. The maximum capacity will be up 4 plug-in modules which could be combinations with above modules. The high flexibility, performance, is the best solution for voice/data/video services in existed market.

Product Picture



19 Inch 1U Type

Features

- Provides total 16 E1 transparent transmission capacity ;
- With char 16*2 LCD display and SNMP agent inside.
- Provide Console manage interface(RS232)
- Provide one hotline channel for option;
- Provide two SFP fiber interfaces, one as master, the other as slave, insuring uninterrupted service transmission.
- The rate of optical port is 155Mbps, transmission range can reach 25KM, 40KM, 60KM, 80KM or 100KM,120KM;
- Provide two fiber interface 1+1 protect(APS)function ,and ALS(Automatic Laser Shutdown/Reduction)function
- Provide 4 slots plug-in modules:
 - ◆ 4× E1 module(75Ω)/(120Ω)
 - ◆ 4×FXO/FXS/EM2-4/Magnet Phone module
 - ◆ 16×FXO/FXS/Magnet Phone module
 - ◆ 8×FXO/FXS/Magnet Phone module
 - ◆ 16×FXO/FXS/Magnet Phone module
 - ◆ 2×V.35 (N*64K N=1-32) module
 - ◆ 4×RS232/422/485 module
 - ◆ 4*FE to E1 bridge(wire speed 2.048M) module

- Provide 4FE (wire speed 100M) Ethernet channel, support mutual negotiate, Ethernet bandwidth is set on base on multiple of 32K.
- Ethernet port supports full/half duplex, 10M/100M auto-adaptable;
- Ethernet port supports VLAN function and has 4 division mode for user selection;
- Ethernet package size support 1916 byte and 4 Ethernet port could be set separately;
- Has complete alarm function and can monitor remote device status;
- Supports E1 loop from remote so as to detect and manage device conveniently;
- The combination AC220V and DC-48V for redundant

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

E1 interface protocol:	ITU-T G.703,
Interface Rate:	2048Kbps±50ppm
Interface Code:	HDB3;
E1 Impedance:	75Ω (unbalance L9), 120Ω (balance RJ45);
Jitter tolerance:	In accord with protocol G.742 and G.823
Allowed Attenuation:	0~6dBm

◆ FXS Phone Interface

Ring voltage:	75V
Ring frequency:	25HZ
Two-line Impedance:	600 Ohm (pick up)
Return loss:	20 dB

◆ FXO Phone Interface

Ring detect voltage:	35V
Ring detection frequency:	17HZ-60HZ
Two-line Impedance:	600 Ohm (pick up)
Return loss:	20 dB

◆ 10/100M FE Interface

Interface rate: 10/100Mbps, 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)
 MTBF : > 100,000 hours

Specifications

Model	TD-OP-Multiplexer
Functional Description	With LCD display, four-slot Multi-Service Optical 19-inch rack
Port Description	2 SFP optical ports and 4 Fast Ethernet ports, one digital service telephone, an SNMP network management port, one Console network management port, 2-way transparent RS232 / 422/485 asynchronous channels over 4 service slots
Power	AC90V ~ 260V; DC -48V/+24V(Selectable); Power Consumption:≤5W
Dimension	485(length) X 138(width) X44(height) mm(19 inch 1U Type)
Weight	2.5Kg/Pcs (19 inch 1U Type)

Application

