



## Modular multi-service Fiber MUX

OP-PDH-Multi-2FX



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## Overview

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

4 slots of tributary with variant plug-in modules which included 4x E1 channels module, 4/8/16 x FXO/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 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;
- Provide two fiber interface 1+1 protect (APS) function ,and ALS (Automatic Laser Shutdown/Reduction) function
- Provide 4 slots plug-in modules:
  - ✧ 4 × unFramed E1 module ( 75 Ω ) / ( 120 Ω )
  - ✧ 4 × Framed E1 module ( 75 Ω ) / ( 120 Ω ) ,any timesolts can be set
  - ✧ 4 × FXO/FXS/EM2-4/Magnet telephone module
  - ✧ 8 × FXO/FXS/2 line audio/Magnet telephone module
  - ✧ 16 × FXO/FXS/2 line audio/Magnet telephone module

- ◇ 2×V.35 (2.048M Fixed speed) 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
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- 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-ataptable;
  - Ethernet port supports VLAN function and has 4 devision mode for user selection;
  - Ethernet package size support 1916 byte and 4 Ethernet port could be set seperately;
  - 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

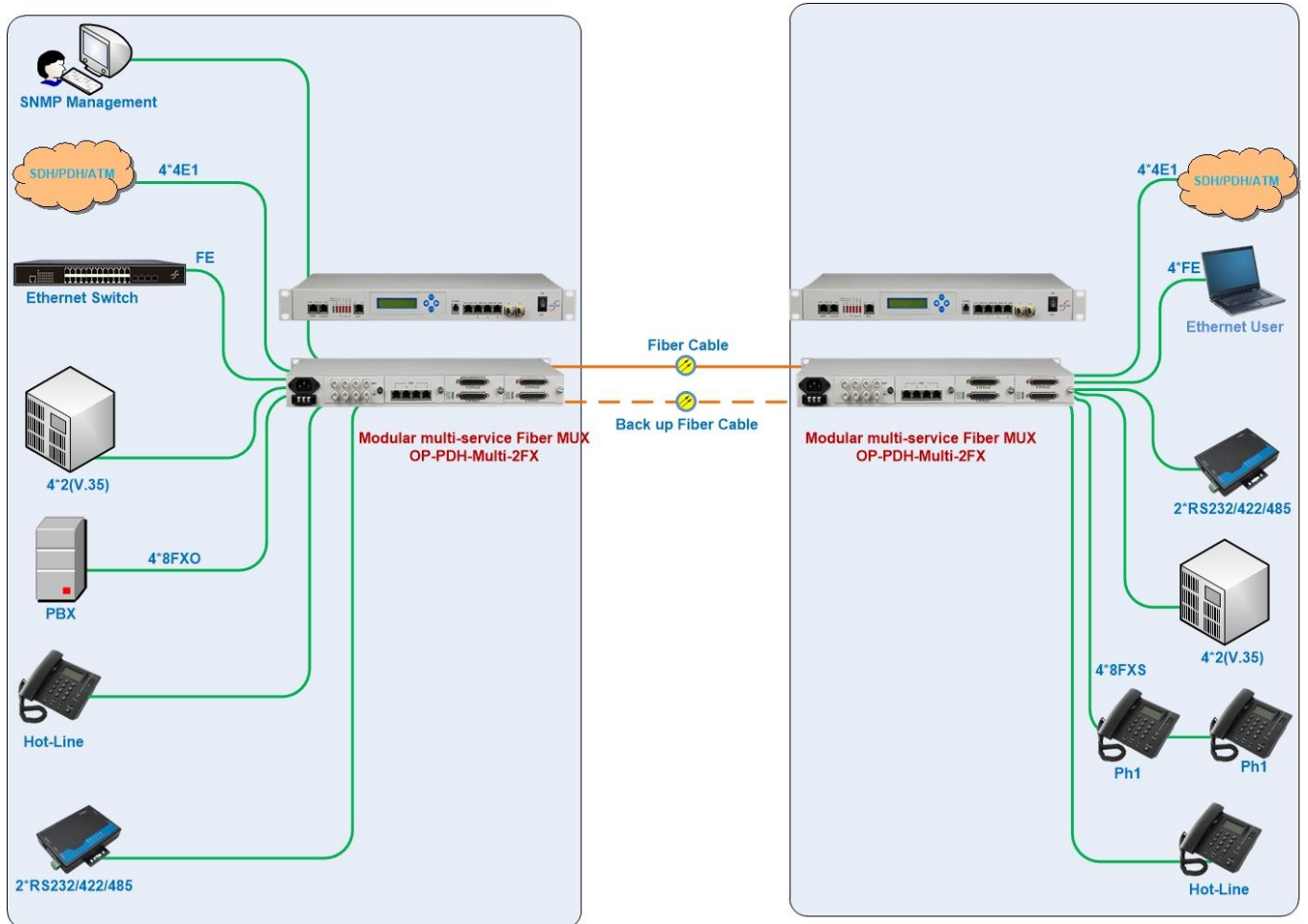
**Technical Parameter**

<b>OP-PDH-Multi-2FX Modular multi-service Fiber MUX</b>	
<b>Optical interface</b>	
<b>Multi-mode Fiber</b>	
Diameter of fiber core	50/125um, 62.5/125um
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
Connector	SC/FC
<b>Single-mode Fiber</b>	
Diameter of fiber core	8/125um, 9/125um
Transmission distance	40Km @ 9 / 125um single mode fiber, attenuation (0.35dbm/km)
Maximum transmission distance	40Km
Wave Length	1310nm
Transmitting power	-9dBm (Min) ~-8dBm (Max)
Receiver sensitivity	-27dBm (Min)
Link budget	18dBm
<b>E1 Interface</b>	
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
<b>Ethernet interface (10/100M)</b>	
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
<b>FXS Phone Interface</b>	
Ring voltage	75V
Ring frequency	25HZ
Two-line Impedance	600 Ohm (pick up)
Return loss	40 dB
<b>FXO Switch Interface</b>	
Ring detect voltage	35V
Ring detection frequency	17HZ-60HZ
Two-line Impedance	600 Ohm (pick up)
Return loss	40 dB
<b>EM 2/4 Line</b>	
AD	0dB
DA	-3.5dB
Two/Four-line Impedance	600 Ohm
Return loss	20 dB
<b>Dimension</b>	
Product Size:	216X140X31mm(WXDXH)
Piece Weight	1KG
<b>Operation Environment</b>	
Operating temperature	-10°C~50°C
Storing temperature	-40°C~+80°C
Working Humidity	5%~95 % (no condensation)
Storage Humidity	5%~95 % (no condensation)
No causticity and solvent, dust free, and no strong magnetic interference.	
<b>Power</b>	
Voltage	AC180V ~ 260V; DC -48V; DC +24V

Consumption	≤10W
Warranty	2 Year Warranty, Life-time Maintenance

**Application**



### Order Information

Model	Description
OP-PDH-Multi-2FX	Modular multi-service Fiber MUX

### Package include

No	Package List
1	Modular multi-service Fiber MUX
2	User Guide
3	Warranty Card

### Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTOSTAR before they become applicable to any particular order or contract. In accordance with the OPTOSTAR policy of continuous improvement specifications may change without notice.

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