



16E1+4FE 1+1 PDH Multiplexer(Physical isolation)

OP-PDH-16E1+4FE-1+1-P



Shenzhen Optostar Optoelectronics Co., Ltd

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Overview

This series of equipment is the company developed the PDH fiber transmission dedicated VLSI developed on the basis of point to point optical transmission equipment. Provide 1 to 16 E1 interfaces, primary and backup fiber optical interface connector, 1-4 physical isolation 10M / 100M Fast Ethernet interface (independent four-speed route 100M), as well as two business expansion interface. 2 Extended service interface can be used as RS232 / RS485 / RS422 asynchronous data, voice signal, twenty-four wire E & M audio signals, digital signals, Ethernet signals (bandwidth 2M) and other transmission channel, the application is very flexible. Optional one digital service telephone, the application is very flexible. With a sound alarm function, the whole stable, reliable, low power consumption, high integration, small size.

Product Features

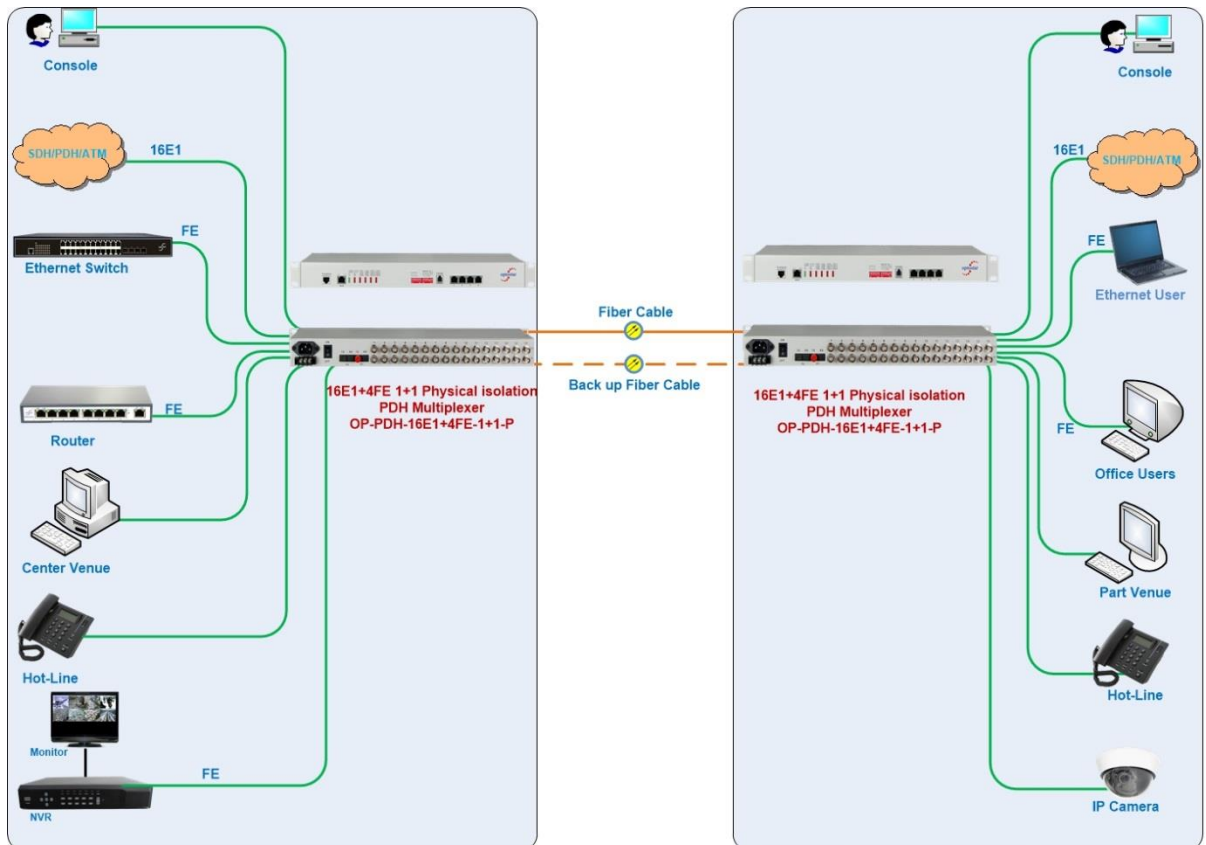
- Based on proprietary integrated circuit;
- Modular wide dynamic optical detector
- Ethernet interface rate is 10M/100M, half/full duplex auto- adaptable
- E1 interface comply with G.703, adopts digital clock recovery and smooth phase-lock technology
- 1Channel PCM digital business phone (optional)
- When optical lose signal, it can detect the remote device is power off or fiber is disconnected, and indicates alarm by LED
- The local device can view the remote device working condition
- Provide command the remote interface Loop Back, ease line maintenance
- The transmission distance is up to 2-120Km without interruption
- AC 220V, DC-48V, DC24V can be optional
- DC-48V/DC24V power supply polarity detection function, Polarity-Free

Technical Parameter

OP-PDH-16E1+4FE-1+1-P 16E1+4FE 1+1 PDH Multiplexer(Physical isolation)	
Optical interface	
Multi-mode Fiber	
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
Single-mode Fiber	
Diameter of fiber core	8/125um, 9/125um
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 rate	n*64Kbps±50ppm
Interface Standard	comply with protocol G.703
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 (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

Dimension	
Product size	19 inch 1U 485 X138 X45 mm(WXDXH)
Simple packaging:	522X198X82mm(WXDXH)
Piece Weight	3KG
Operation Environment	
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.	
Power	
Voltage	AC180V ~ 260V; DC -48V; DC +24V
Consumption	≤10W
Warranty	2 Year Warranty, Life-time Maintenance

Application





Order Information

Model	Description
OP-PDH-16E1+4FE-1+1-P	16E1+4FE 1+1 PDH Multiplexer(Physical isolation)

Package include

No	Package List
1	16E1+4FE 1+1 PDH Multiplexer(Physical isolation)
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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