



16E1+4FE-1+1 PDH Multiplexer

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



Shenzhen Optostar Optoelectronics Co., Ltd

2013. 05 (Version 2)

Overview

OP-PDH-16E1+4FE-1+1 provides 1-16Channel E1 interface, master optical fiber interface and backup optical fiber interface, 1-4Channel 10M/100M Ethernet interface (Line Rate 100M) and 2 expansion interface. 4Channel Ethernet interface is switch interface, can support VLAN. 2 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. It has alarm function. The work is reliable, stable, and low power consumption, high integration, small size.

Product Features

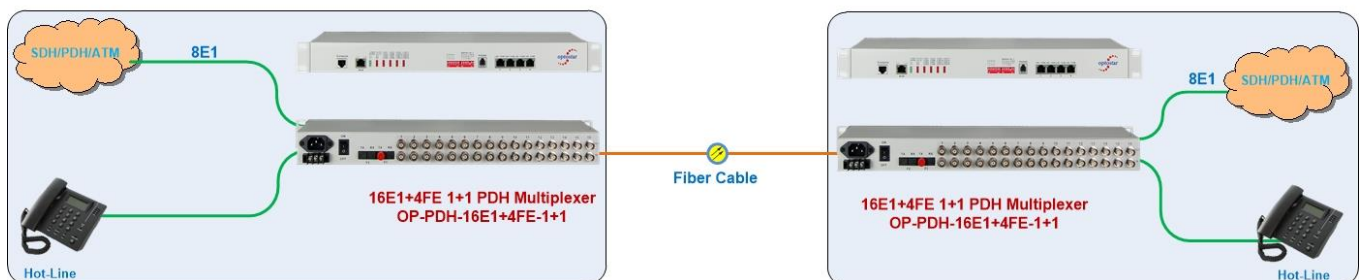
- Based on self -copyright IC
- Modular wide dynamic optical detector
- The device provides master optical fiber interface and backup optical fiber interface, Dual Optical Port backup function ensures that the work will never break
- Ethernet interface rate is 10M/100M, half/full duplex auto- Negotiation
- 4Channel Ethernet interface is switch interface, support VLAN, can set to 4 channel logical isolation
- 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 2 expansion interface, you can extend 1~2Channel asynchronous data, such as RS232/RS485/RS422/Manchester code;
1~2Channel voice,1~4Channel switch , or two/four line audio and so on
- 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 16E1+4FE-1+1 PDH Multiplexer	
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	75 Ω (unbalance), 120 Ω (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: Mini Type	485X138X44mm(WXDXH)
Simple packaging:	522X198X82mmWXDXH)
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	16E1+4FE-1+1 PDH Multiplexer

Package include

No	Package List
1	16E1+4FE-1+1 PDH Multiplexer
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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