



## 16E1+4GE PDH Multiplexer

OP-PDH-16E1+4GE



Shenzhen Optostar Optoelectronics Co., Ltd

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## Overview

OP-PDH-16E1+4GE is the point-to-point optical transmission device developed on the basis of VLSI. The device provides 1-16Channel E1 interface, 1-4Channel 10M/100M/1000M Ethernet interface (Line Rate 1000M) and 2 expansion interfaces. 4Channel Ethernet interface is switch interface, can support VLAN. 1 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). 1Channel digital business phone can be optional. It is very flexible. It has alarm function. The work is reliable, stable, and low power consumption, high integration, small size.

## Product Features

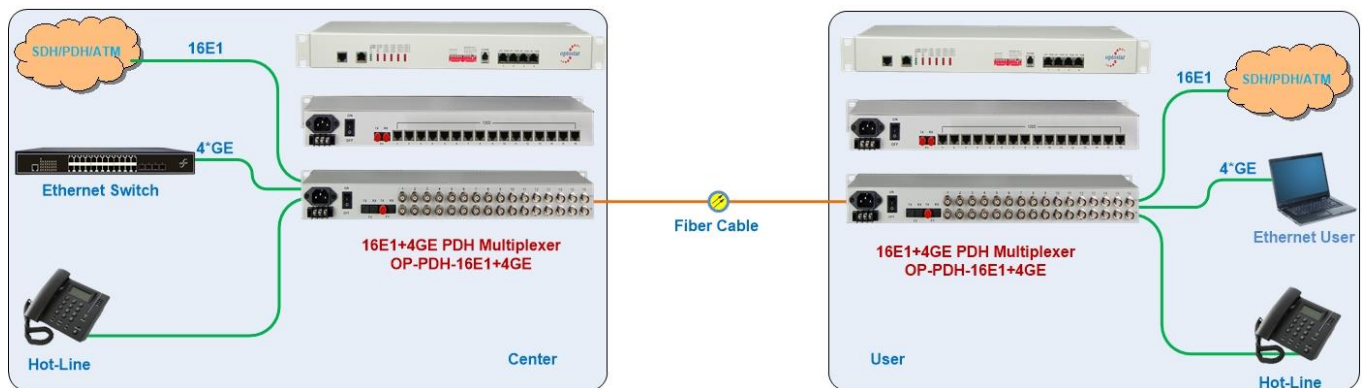
- Based on self -copyright IC
- The bandwidth is up to 1.5G, can save line sources
- Ethernet interface rate is 10M/100/1000M, half/full duplex auto- adaptable
- 4Channel Ethernet interface is switch interface, support VLAN, can set to 4 channel logical isolation
- E1 interface comply with G.703, adopts digital clock recovery and smooth phase-lock technology
- 1Channel PCM digital business phone (optional)
- Provide Console management interface
- 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, 1~2Channel E1, 1~4Channel switch , or 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**

<b>OP-PDH-16E1+4GE 16E1+4GE PDH Multiplexer</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	75 Ω (unbalance), 120 Ω (balance)
Jitter tolerance	In accord with protocol G.742 and G.823
Allowed Attenuation	0~6dBm
<b>Ethernet interface (10/100/1000M)</b>	
Interface rate	10/100/1000 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>Dimension</b>	
Product Size:	19 inch 1U 485 X138 X45 mm(WXDXH)
Simple packaging:	522X198X82mm( WXDXH)
Piece Weight	3KG
<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
<b>Warranty</b>	2 Year Warranty, Life-time Maintenance

**Application**



### Order Information

Model	Description
OP-PDH-16E1+4GE	16E1+4GE PDH Multiplexer

### Package include

No	Package List
1	16E1+4GE 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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