



E1-4FE Physical Isolation Protocol Converter

OP-PC-E1-4FE-P



Shenzhen Optostar Optoelectronics Co., Ltd

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Overview

OP-PC-E1-4FE-P is based on FPGA. Multiplex 10/100Base-T Ethernet 4Channel interface to E1 interface to provide users with Ethernet access at the rate of 1984K. It is widely used in finance, securities and security departments which need to be provided two different networks, and both on a physical network can be completely separated. For example, the financial system business network, internal office network and business network can't be linked together. This interface multiplexer can solve this problem.

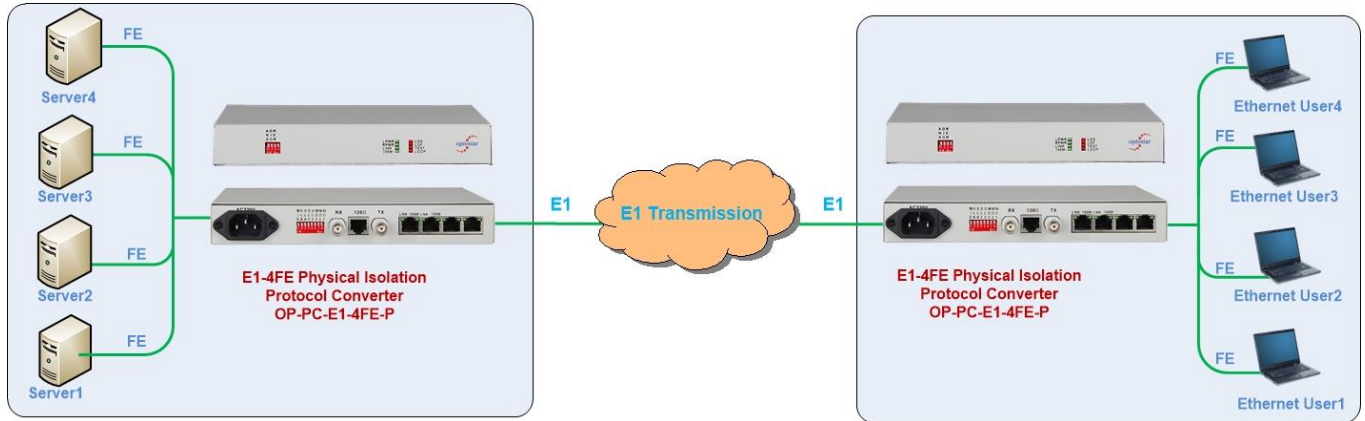
Product Features

- Based on self -copyright IC
- Can realize 4Channel Ethernet data transmission by 1 E1 circuits
- Inter-set dynamic Ethernet MAC address (4,096) with local data frame filtering function
- 4Channel Ethernet rate is 1984Kbps, set up the first channel rate, the second channel Ethernet rate automatic allocation
- The local device can forced the remote device rate follow it
- Have the function of E1 interface loop back check, avoid the converter crashed because of interface loop return;
- Can set the E1 line that not to send the LINK signal to Ethernet interface while E1 line is broken;
- The Ethernet interface supports jumbo frames (2036 Bytes)
- Ethernet interface supports10M/100M, half/full duplex auto-Negotiation and AUTO-MDIX (crossed line and straightly connected line self-adaptable)
- Have Ethernet monitor self-reset function, the equipment will not dead
- Provide 2 clock types: E1 master clock and E1 line clock;
- Have three Loop Back Mode: E1 interface Loop Back (ANA)、 Ethernet interface Loop Back(DIG)、 Command the remote Ethernet interface Loop Back(REM)
- Provide 2 impedances: 75 Ohm unbalance and 120 Ohm balance;
- Realize monitor of remote equipment temperature and voltage from local equipment;
- Support SNMP Network Management;

Technical Parameter

OP-PC-E1-4FE-P E1-4FE Physical Isolation Protocol Converter	
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
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
Dimension	
Product Size	216X140X31mm(WXDXH)
Simple packaging	274X193X84mm(WXDXH)
Piece Weight	1.2KG
Operation Environment	
Operating temperature	0°C~50°C
Storing temperature	-40°C~+70°C
Relative humidity	95 %
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-PC-E1-4FE-P	E1-4FE Physical Isolation Protocol Converter

Package include

No	Package List
1	E1-4FE Physical Isolation Protocol Converter
2	User Guide
3	Warranty Card

Important Notice

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