Unframed 4 Ethernet to E1 Protocol Converter

OP-PC-E1-4FE-UN

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Overview

OP-PC-E1-4FE-UN E1-4ETH interface converter is based on FPGA. The device provides the transition between ITU-T G.703 (E1) standard unframed E1 interface and 10/100Base-T interface. It is a high capability, self-adaptable long-distance Ethernet bridge. The product is small and with low cost. It is widely used in connecting between WAN and LAN, monitoring, etc

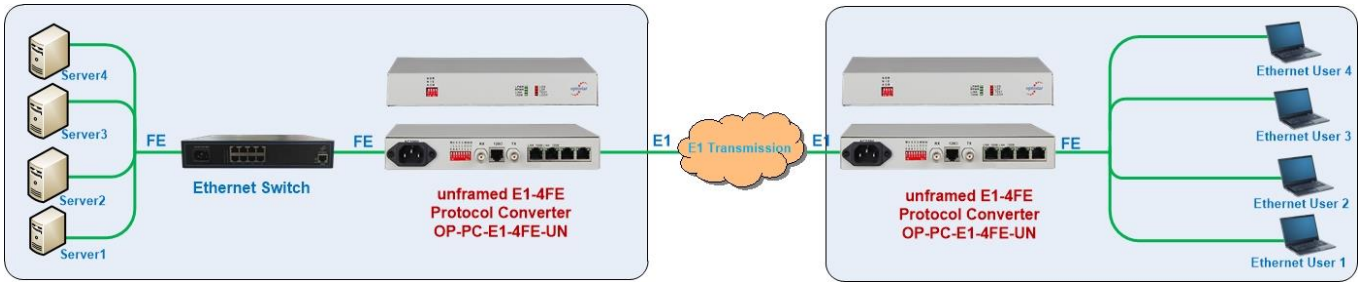
Prduct Features

- Based on self -copyright IC
- Can realize monitor and control of remote equipment, OAM management data did not take up users' timeslot and save E1 bandwidth
- Have the function of E1 interface loop back check, avoid the converter crashed because of interface loop return;
- Have indicator when the device is power-off or E1 line is broken or lose signal;
- 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 (1916 Bytes);
- 4Channel 10M/100M Ethernet interface can isolate each other to realize communication independently;
- Ethernet interface supports10M/100M, half/full duplex auto-Negotiation and AUTO-MDIX (crossed line and straightly connected line self-adaptable);
- 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)
- Have pseudo random code test function, easy the installation and maintenance;
- Provide 2 impedances: 75 Ohm unbalance and 120 Ohm balance;
- Have Ethernet monitor self-reset function, the equipment will not dead
- Ethernet interface supports the counters of receiving and transmitting frame, receives wrong frame counters. E1 interface supports the counters of receiving wrong frame;
- Realize monitor of remote equipment temperature and voltage from local equipment;
- Support SNMP Network Management;
- Can form the structure: Ethernet E1 Bridge(A)——-E1 Optical Fiber Modem(B)——-Ethernet Optical Fiber Modem (C)

Technical Parameter

OP-PC-E1-4FE-UN Unframed 4 Ethernet to E1 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	75Ω (unbalance), 120Ω (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-UN	**Unframed 4 Ethernet to E1 Protocol Converter**

Package include

No	Package List
1	4 Unframed Ethernet to E1 Protocol Converter
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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