



Framed Ethernet to E1 Protocol Converter

OP-PC-E1-FE



Shenzhen Optostar Optoelectronics Co., Ltd

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Overview

OP-PC-E1-FE provides one Framed 2048K E1 interface and one Ethernet interface to achieve 10/100Base-T Ethernet data transmission on the E1 channel. It is a high performance, self-learning Ethernet bridge. This device is the extension device of Ethernet, using network (PDH/SDH/Microwave) that provide E1 channel to achieve local and remote Ethernet interconnecting with serial interfaces at a lower cost. The device has inter-set loop test function to facilitate the project launching and daily maintenance.

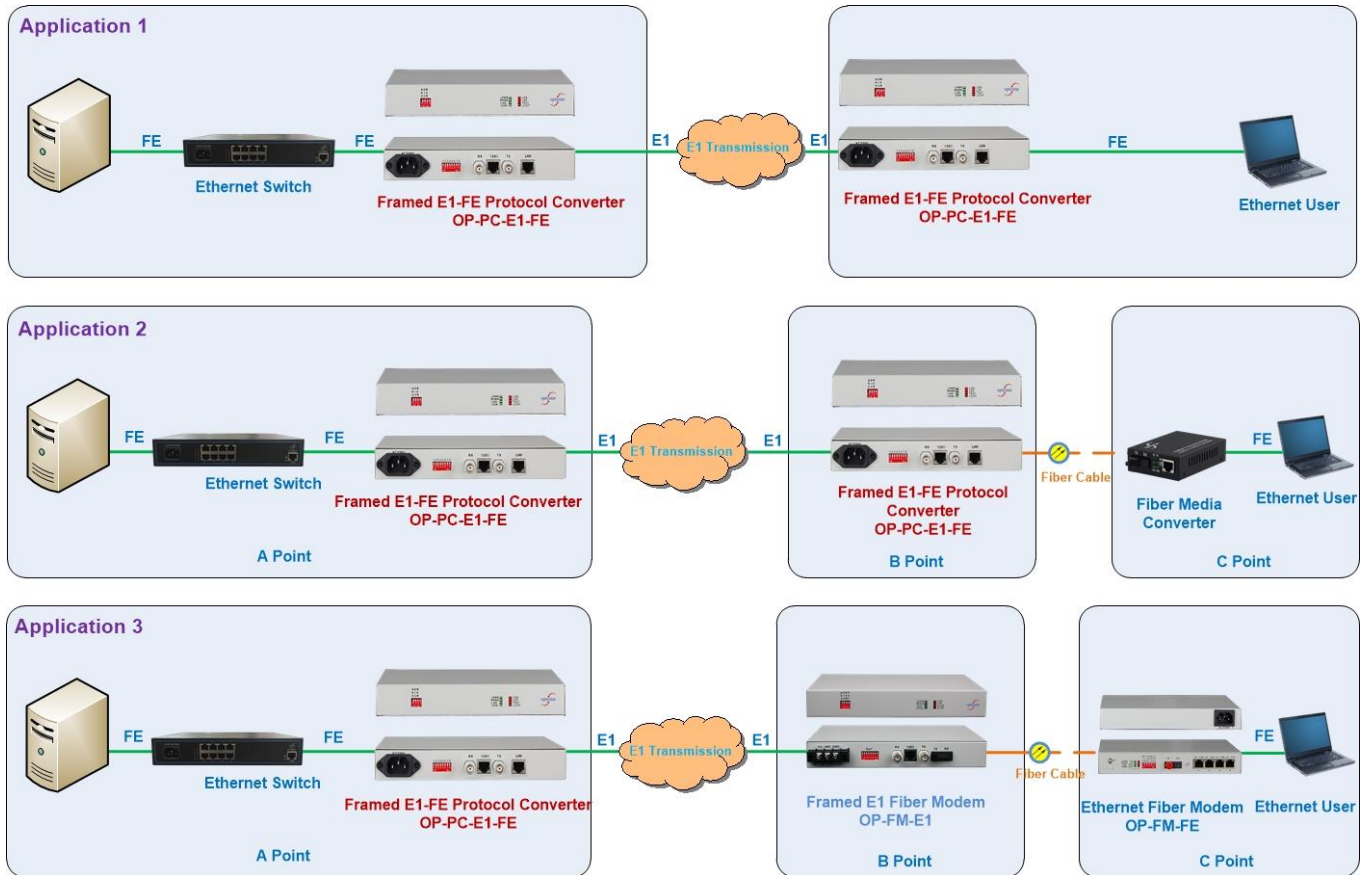
Product Features

- Based on self-copyright IC
- Can realize monitor and control of remote equipment, OAM management data did not take up user's timeslot and save E1 bandwidth
- E1 supports any timeslot set, the rate is 64K-2048K
- 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;
- 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 (2036 Bytes);
- Inter-set dynamic Ethernet MAC address (4,096) with local data frame filtering
- Ethernet interface supports 10M/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
- Can achieve the remote device setting any 5 mode of Ethernet and can closed the AUTO-MDIX function;
- 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;
- Support SNMP Network Management;
- Can realize monitor of remote equipment temperature and voltage from local equipment;
- Can form the structure: Ethernet E1 Bridge(A) — —E1 Optical Fiber Modem(B) — —Ethernet Optical Fiber Modem (C)
- Can form the structure: Ethernet E1 Bridge(A) — —Optical Ethernet Modem(B) — —Ethernet Optical Fiber Transceiver (C), can manage (B) and (C) at (A)

Technical Parameter

OP-PC-E1-FE Framed 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	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-FE	Framed Ethernet to E1 Protocol Converter

Package include

No	Package List
1	Framed 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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