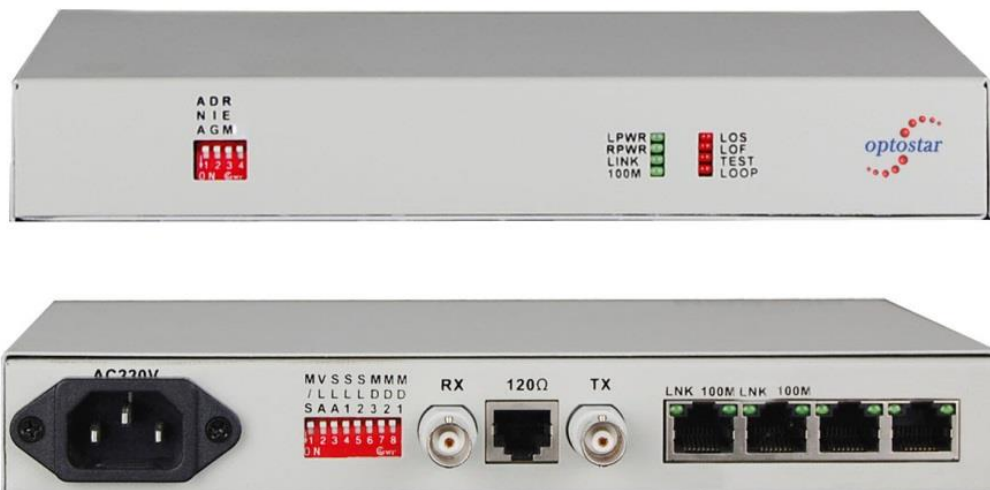




## Framed 4 Ethernet to E1 Protocol Converter

OP-PC-E1-4FE



Shenzhen Optostar Optoelectronics Co., Ltd

2013. 08 (Version 2)

## Overview

E1-4ETH interface converter is based on FPGA. The device provides the transition between ITU-T G.703 (E1) standard framed 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

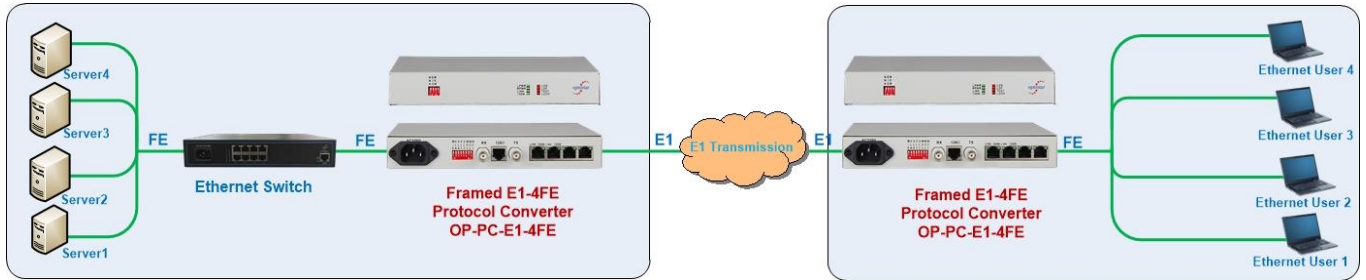
## Product Features

- Based on self -copyright IC
- E1 supports any timeslot set, the rate is 64K-2048K
- Can realize monitor and control of remote equipment, OAM management data did not take up user's 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 supports 10M/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**

|  |  |
|--|--|
| <b>OP-PC-E1-4FE Framed 4 Ethernet to E1 Protocol Converter</b>             |  |
| <b>Ethernet interface (10/100M)</b>  |  |
| 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                        |
| <b>E1 Interface</b>  |  |
| 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   |
| <b>Dimension</b>   |  |
| Product Size   | 216X140X31mm(WXDXH)                            |
| Simple packaging   | 274X193X84mm(WXDXH)                            |
| Piece Weight   | 1.2KG  |
| <b>Operation Environment</b>   |  |
| 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. |  |
| <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-PC-E1-4FE | Framed 4 Ethernet to E1 Protocol Converter |

### Package include

| No | Package List                               |
|----|--|
| 1  | 4 Framed Ethernet to E1 Protocol Converter |
| 2  | User Guide                                 |
| 3  | Warranty Card                              |

### Important Notice

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