



Framed E1-FE+4RS232 Protocol Converter

OP-PC-E1-FE+4RS232



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2013. 08(Version 2)

Overview

Framed E1-FE+4RS232 Protocol Converter is based on FPGA, providing one framed E1 interface, one Ethernet interface and 4 serial interfaces to achieve 10/100Base-T Ethernet data transmission on the E1 channel. Providing one Ethernet Bridge plus 4 serial interfaces via one E1 interface;

Product Features

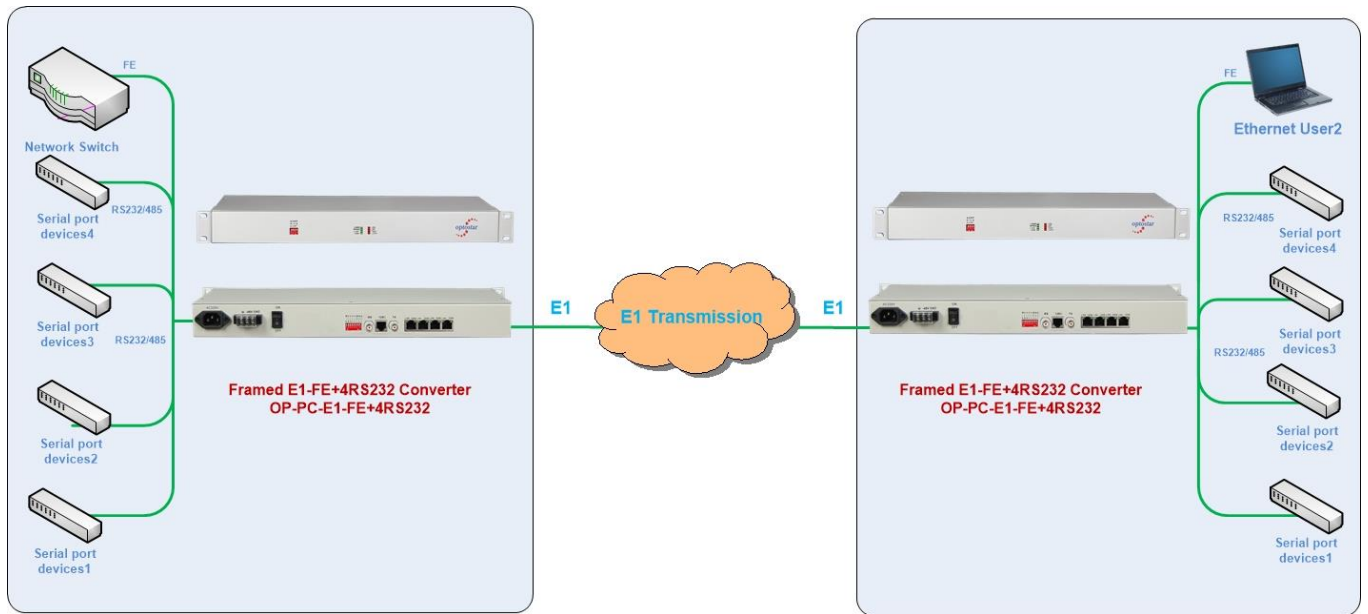
- Based on self -copyright IC
- Can realize monitor and control of remote equipment, OAM management data did not take up user' s timeslot and save E1 bandwidth
- E1 supports any timeslot set, the rate is 64K-2048K
- The local device can forced the remote device rate follow it
- Have indicator when the remote device is power-off or E1 line is broken or lose signal;
- Have the function of E1 interface loop back check, avoid the converter crashed because of interface loop return;
- The Ethernet interface supports jumbo frames (2036 Bytes);
- Inter-set dynamic Ethernet MAC address (4,096) with local data frame filtering function
- Ethernet interface supports 10M/100M, half/full duplex auto- Negotiation, support VLAN
- Ethernet interface supports 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;
- Provide 2 impedances: 75 Ohm unbalance and 120 Ohm balance;
- Support SNMP Network Management
- Serial Data Interface can be RS232/RS422/RS485/TTL optional
- Serial channel can transmit adaptable serial data asynchronously 300 Kbps-19200Kbps baud rate
- Serial data multiplexing in E1 support ITU-T R.111 jumping coding mode
- The local RS232 serial data can command the remote RS232 serial data loop-back to the local. This loop-back in the outer ring of RS232 data interface, you can test the RS232 interface chip without damage
- Serial port interface lightning-protection reached IEC61000-4-5 (8/20 μ S) DM(Differential Mode): 6KV, Impedance (2 Ohm),CM(Common Mode): 6KV, Impedance (2 Ohm) standard

Technical Parameter

OP-PC-E1-FE+4RS232 Framed E1-FE+4RS232 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
Serial Interface	
Standard	EIA/TIA-232 RS-232 (ITU-T V.28) EIA/TIA-422 RS-422 (ITU-T V.11) EIA/TIA-485 RS-485 (ISO/IEC8284)
Serial Interface	RS-422: TXD+, TXD-, RXD+, RXD-, Signal Ground RS-485 4 wires: TXD+, TXD-, RXD+, RXD-, Signal Ground RS-485 2 wires: Data+(Correspond TX+), Data- (Correspond TX-), Signal Ground RS-232: RXD, TXD, Signal Ground
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+4RS232	Framed E1-FE+4RS232 Protocol Converter

Package include

No	Package List
1	Framed E1-FE+4RS232 Protocol Converter
2	User Guide
3	Warranty Card

Important Notice

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