

POE 4E1-FE Interface Converter

• Overview

This interface converter is based on FPGA, using reverse direction multiplexing technology to bundle for multiple E1 circuits to transmit the Ethernet data of 4Channel 100BASE-TX. It can realize 1~4 E1 channel to convert between Ethernet optical interface. This device can transmit the transceiver signal point to point to Ethernet optical interface to make E1 channels interconnected with Ethernet optical interface. Unlike general remote network bridge, this device can support 1-4Channel E1 channel configuration, can automatically detect the number of E1 and select the E1 available. It allows E1 lines transmission time delay difference.



Features

- Based on self -copyright IC
- > To achieve Ethernet data transparent transmission in 1-4E1 circuits
- > Can realize the local and the remote device reset
- > Ethernet Interface is 100BASE-FX, support VLAN protocol
- Inter-set dynamic Ethernet MAC address (4,096) with local data frame filtering function
- Single Channel lines rate is 1984Kbit/s, 4Channel Bandwidth is up to 7936Kbit/s
- Channel 10M/100M Ethernet interface can isolate each other to realize communication independently



- Ethernet interface supports10M/100M, half/full duplex auto- adaptable and AUTO-MDIX (crossed line and straightly connected line self-adaptable)
- CRC automatic alarm threshold can be set to isolate the poor quality transmission lines and cut off a single-direction. When 2M branch circuit onedirection error rate exceeds threshold, cutting off this direction the other direction is not affected; that is to say, both of the Ethernet directiontransmission can be asymmetric
- Allow 4-Channel E1 transmission time delay difference 100ms. When the margin exceed the allowed range, the system can automatically stop on the E1 that time delay is too large to send data
- E1 interface conform to ITU-T G.703, G.704 and G.823, not support the use of signal timeslot
- > E1 interface module with inter-set clock recovery circuit and HDB3 code circuit
- Support E1 channel hot-plug in the device, and automatically detects the effective
 E1 channel and will not interrupt data transmission
- Can support 1-4Channel E1 channel configuration, can automatically detect the number of E1 and select the E1 available;
- Ethernet supports standard IEEE802.3af / at power supply; Each port can be sufficient power output 15.4W (IEEE802.3af), at 25.5W (IEEE802.3at);

: Parameters

• E1 Interface

Interface Standard:	comply with protocol G.703;
Interface Rate:	n*64Kbps±50ppm;
Interface Code:	HDB3;
E1 Impedance:	75Ω (unbalance), 120Ω (balance);
Jitter tolerance:	In accord with protocol G.742 and G.823
Allowed Attenuation:	0~6dBm

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

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Interface Converter

Connector:

RJ45, support Auto-MDIX

• Ethernet POE features

PoE standard: IEEE 802.3af / at PoE Type: End Crossing Method (optional intermediatebridging method) PoE Port Features: Port output power 15.4W / 25.5W PoE transmission core: 1/2 +, 3/6-pair (optional 4/5 +, 7/8-pair)

Working environment

Working temperature:	-10°C ~ 50°C
Working Humidity:	5%~95 % (no condensation)
Storage temperature:	-40°C ~ 80°C
Storage Humidity:	5%~95 % (no condensation)

• Specifications

Functional	POE 4E1/FE interface Converter
Description	
Port Description	4* E1 interface ; FE Interface
Power	Power supply: AC180V ~ 260V ; DC -48V ; DC +24V
	Power consumption: ≤10W
Dimension	Product Size: Mini type 216X140X31mm (WXDXH),1.3KG/piece

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