



POE E1-FE Interface Converter af/at

Overview

This interface converter provides one unframed 2048K E1 or framed n*64Kbps 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.

Photos



- Based on self -copyright IC
- Support unframed mode (2048K) set and can manage the remote device condition ,
OAM management data did not take up user's timeslot
- Have the function of E1 interface loop back check, avoid the converter crashed because of interface loop back;
- 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;
- The local device can forced the remote device rate follow it(when the device is unframed mode, that is invalid);
- 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;
- 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
Connector:	RJ45, support Auto-MDIX

◆ Ethernet POE features

PoE standard: IEEE 802.3af / at
PoE Type: End Crossing Method (optional intermediatebridging method)

