

Protocol Converters

E1 to Ethernet Protocol Converter



Descriptions

The design of this product adopts the ASIC chip as the core, which features simple circuits and compact structure and enhances the reliability of the integrated equipment. This protocol converter provides data transmission channels at a maximum bandwidth of 2.048M for the Ethernet over coaxial cables and connects two LANs through coaxial cables. It is applicable to multiple application scenarios including LAN extension, network isolation, and access of LAN into WAN. It connects an Ethernet network to a telecommunications transmission network, a private network or a WAN.

Features

- Supporting IEEE802.3Q VLAN frames and 1536 bytes jumbo frames
- Supporting data transmission from 10/100M Ethernet to E1
- Configurable Ethernet bandwidth, supporting a maximum rate of 2.048 Mbps
- Supporting full-duplex PAUSE flow control function
- Supporting address filtering function
- RJ45 interface, supporting adaptive crossover and straight-through cabling
- Supporting the reset of a remote system from a local system
- Supporting audio alarm function, with the audio alarm system to be disabled by the user at any time
- Supporting E1 line loopback function
- Built-in switching power supply, overall power consumption < 3W; external 220V AC and -48V DC interface

Specifications

<b>Protocols and Standards</b>	Supporting IEEE802.3.d Spanning Tree, IEEE802.3Q VLAN frames and 1536 bytes jumbo frames
<b>E1 interface</b>	In compliance with ITU-T G.703/G.704 protocol Rate: 2.048 Mb/s Code pattern: HDB3 Interface impedance: 75W BNC interface (unbalanced)/ 120W RJ45 interface (balanced) Permitted input frequency shift: 2.048MHz 【100PPM Jitter characteristics: G.823 recommendation
<b>Ethernet Interface</b>	In compliance with IEEE802.3/IEEE802.3u standard, using standard RJ45 connector Supporting wire-speed 10Base-T/100Base-TX, full duplex/half-duplex adaptive mode Supporting automatic crossover of twisted pairs
<b>Bit error rate</b>	<1/1000000000
<b>Power</b>	Capable of dual power supply, mutual hot backup AC 220V: 220V (AC) input, allowing 175V~264V (AC) DC -48V: -48V (DC) input, allowing -40V~-60V (DC)
<b>Dimensions</b>	212mm (L)*150mm (W)*38mm (H)

For detailed inquiry please contact our sales team at: [sales@HuihongFiber.com](mailto:sales@HuihongFiber.com) .

**Protocol Converters**

**E1 to V.35 Protocol Converter**



**Descriptions**

E1 to V.35 protocol converter can realize the bi-directional data transfer from E1 port to V.35. This equipment is widely used in communication network including WAN and LAN, realizing the transfer from E1 channel of SDH or PDH equipment to V.35 which maybe provided with router.

**Features**

- E1 channel: both framed & unframed are OK, both 75 & 120ohm are OK
- Standard: G.703, line code: HDB3
- Alarm system for E1 loss
- Support local/remote loop test
- DB25 connector for V.35, in DCE mode
- Multiple clock selection: internal clock, V.35 line clock and E1 recovery clock
- Panel instruction for easy understanding of equipment working status
- Internal power supply, 220V AC and -48V DC optional
- . Standalone and module at your selection

**Specifications**

<b>E1 port</b>	Bit rate: 2.048Mbit/s±50ppm Line code: HDB3 Standard: Compatible with ITU-T G703 Connector: BNC connector with line impedance 75ohm, RJ45 connector with line impedance 120ohm Jitter performance: in full compatible with G742 and G823
<b>V.35 port</b>	Line code: NRZ Bit rate: 2.048 Mbit/s±50ppm Connector: DB25female, with DB25/M34 transfer line Way of Connection: DCE Clock: Line Clock, Local clock
<b>Power Supply</b>	-48VDC or 220VAC±20%
<b>Dimension</b>	170mm(W)*133mm(D)*40mm(H)

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**Protocol Converters****V35 to Ethernet Protocol Converter****Descriptions**

V. 35 to Ethernet Protocol Converter accomplishes the converting between the 10/100M Ethernet port and the V. 35 port. It provides at most bandwidth N\*64kbps data transmission channel for Ethernet through V. 35 Lines. It is suitable for many situations, such as increasing the range of LAN, founding a special Ethernet network, and so on.

**Features**

- Support the transmission of IEEE 802.3Q VLAN frame
- Ethernet interface 10/100M, full/half duplex modes auto-negotiation
- MAC addresses self-learning and addresses filtering automatically
- Support DHCP packet filtering function
- Support local loop and remote loop

**Specifications**

<b>Ethernet Port</b>	Rate: 10/100Mbps Connector: RJ45 Standard: IEEE-802.3U
<b>V.35 port</b>	Rate: N*64Kbps(N=1~32) Standard: ITU-T V. 35 standard
<b>Power Supply</b>	220VAC/-48VDC
<b>Dimension</b>	210mm*140mm*40mm

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