



4E1 to Ethernet Protocol Converter:



Specifications:

4E1 to ethernet protocol converter:

- 1.1. Provide 4E1 interfaces, 2~4 10/100M Base-T ports
2. E1 loop return test available

Features;-

- Supporting transparent transmission of Ethernet data over 1 to 4 E1 circuits
- In compliance with IEEE 802.3 protocol, supporting 10M/100M, full-duplex/half-duplex working mode
- Supporting transparent transmission of jumbo frames specified in IEEE 802.1Q, and supporting Ethernet switch with VLAN function
- Built-in dynamic Ethernet MAC address list (1024) in the chip, supporting local data frame filtering function
- Built-in Ethernet data frame FCS check functional module, with check alarm output
- Built-in Synchronous Dynamic Random Access Memory (SDRAM) controller
- Optional buffer area size to suit different types of services
- E1 interface complies with ITU-T G.703, G.705, and G.823 recommendations, but does not support the use of signaling timeslot
- Built-in clock recovery circuit and HDB3 coding/decoding circuit in E1 interface module
- Supporting HDB3 code pattern
- Supporting availability detection and automatic fault handling for 1 to 4 E1 circuits
- Perfect line alarm indication and output
- Supporting the reset of a remote system from a local system
- Supporting E1 circuit loopback function
- New peer end alarm function, enabling the user to remove faults visually
- New lightning protection function, effectively preventing the threat of thunders and lightning on communication equipment
- Supporting remote alarm function, enabling a network administrator to judge a remote E1 line fault from the local end (applicable to the carrier-class NE-2708D)
- MTBF > 50,000 hours, in compliance with carrier-class operation requirements (applicable to the carrier-class NE-2708D)

Technical Parameters;-

1. E1 interface

Interface rate: 2048 Kb/s \pm 50 ppm

Interface code pattern: HDB3

Interface impedance: 75W/non-balanced

Jitter tolerance: In compliance with G.823

Output jitter $<$ 0.05 UI

2. 100/10Base-T interface

Compatible with IEEE802.3/IEEE802.3U Ethernet standards

Supporting 10M/100M, full-duplex/half-duplex working model

Dynamic address list storing 1024 Ethernet MAC addresses

Supporting automatic address update and local data frame filtering functions

Operating Environment

• Ambient temperature: 0°C- 60°C

• Relative humidity: 5% - 95%

• Atmospheric pressure: 86 - 106 Kpa

• Power parameter: AC180V-240V (50Hz/60Hz) power consumption $<$ 5W

Dimensions: 210'140'38 (mm)

