

MODEL7212

10/100M Ethernet to FE1 Bridge

Features

1. Using E1 line transparent transfer Ethernet data
2. Support $N \times 64\text{Kbps}$ ($N=1 \sim 32$) rate
3. Support local clock and line clock
4. Support pretend random coding loop test
5. E1 (G.703) interface support 120ohm (RJ-45) and 75ohm (BNC double coaxial)
6. Ethernet MAC address percolate function
7. Support VLAN over length data bag
8. Ethernet port support 10M/100M full-duplex/half-duplex



Introduction

MODEL7212 bridge provides easy conversion from ITU-T G.703 E1 channel to Ethernet interface. Can used widely in connecting between WAN and LAN, monitoring, etc. The Ethernet interface is 10/100Mbps auto negotiation and can be full/half duplex. The E1 is transparent and in full rate, which can support the E1 unframed mode, including fractional E1 per request. A pair of MODEL7212 offers a cost effective solution for using existing E1 leased lines for transparent Ethernet service. Local management of the MODEL7212

Converter is provided via DIP switches. Front panel LEDs monitor the G.703 link, Ethernet LAN and serial ports for status and Loss of Sync. MODEL7212 compact G.703 Access Converter provides E1/2.048 Mbps Network Termination as well as serial or Ethernet LAN interface conversion in a standalone or rack mount package. MODEL7212 terminates the G.703 Telco interface and converts the data for transmission to a user-oriented 10/100BaseT(X) interface.

Specification

Protocol: G.703, G.704, G.736, G.823, I.431

IEEE802.3 100BASE_Tx

Circuit interface (E1): Impedance: 75Ω, physical interface: BNC
Impedance: 120Ω, physical interface: RJ45

Interface rate: framing: $N \times 64\text{Kbps}$ ($N=0 \sim 31$);
un-framing: 2.048Mbps

Coding: HDB3, Jitter tolerance in accordance with G.823 Output jitter $< 0.05\text{UI}$

Data interface (100BASE_T):

Impedance: 100Ω, physical interface: RJ45

Interface rate: 100Mbps

Coding: Manchester

Cable: 75Ωcoaxial-cable, UTP5 twisted pair

Transmission range: circuit interface: BNC: 600m; RJ45: 300m
Data interface: 100m

Indicator: indicating power, connection states of data and circuit interfaces, operation state, test state and trouble alarm.

Dimensions: stand alone: 140mm (D) \times 210mm (W) \times 40mm (H)
Rack mount: 19in standard 4.5U cabinet

Power supply: stand alone: 85V \sim 264V AC input, 5V/1A output
-36V \sim -72V DC input, 5V/1A output

rack mount: 150V \sim 260V AC input, 5V/16A, 12V/1A output
-38V \sim -58V DC input, 5V/16A, 12V/1A output

Power dissipation: 3W

Operational temperature: 0° C \sim 50° C

Storage temperature: -20° C \sim 80° C

Humidity: 5% \sim 90% (no condensation)

Warranty: 3 years

Approvals: FCC, CE, RoHS approvals

Packing List

1. MODEL7212 Ethernet Bridge $\times 1$
2. 220V power line $\times 1$
3. User manual $\times 1$