3onedata

Make network communication more reliable



Model7210 Series

Desktop/rack-mounted Installation

1-way 100M Ethernet to 4-way E1 Protocol Converter

- Support local / remote loopback test
- Support local clock and recover clock setting
- Support Ethernet 10M/100M rate and full / half duplex setting
- Two optional power supplies: 220VAC or -48VDC

Introduction

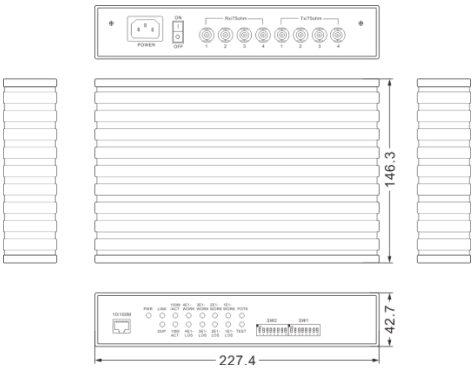
MODEL7210 Series is cost effective Ethernet connection and bridging device which implements Ethernet data bridging through 4 E1 ports. It could be called as Ethernet 4E1 bridge or Ethernet 4E1 protocol converter. Its operating principle is turning Ethernet frame format into E1 frame format and recovering it at the opposite end, achieving Ethernet transmission on E1-based transmission network.

It adopts FPGA technology design. Its E1 port is in accord with ITU-T G.703 protocol, and Ethernet port is in accord with 10/100Base-T(X) standard and supports 10/100Mbps Ethernet speed. Ethernet port supports 10M/100M self-adaption and full/half self-adaption, and automatic detection of available channel number in 4-way E1 line, including automatic bandwidth allocation. 1-4 way E1 line allows 16ms maximum transmission delay of data frame order between any two E1 lines, ensuring that device could operate stably and reliably under all kinds of complex network situation.

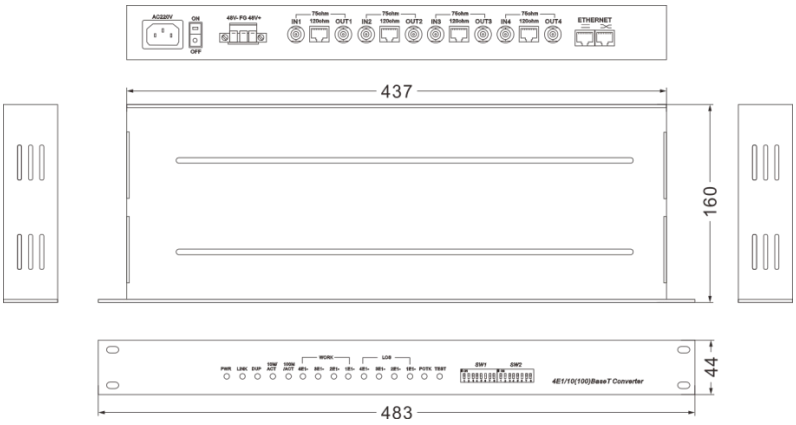
Dimension

Unit: mm

- Desktop



- Rack-mounted



Specification

E1 Port	Line Rate: 2.048Mbps×4=8.192Mbps Transmission Distance: 2Km Clock Recovery Accuracy: ±50ppm Allowable Transmission Delay: 10ms Interface Code Pattern: HDB3 Frame Format: un-framing CRC Check: No Clock Frequency: 2.048MHz Interface Connection: BNC, RJ45 (Rack-mounted) Interface Impedance: 75Ω (BNC) and 120Ω (RJ45, rack-mounted) Interface Protection: 1500V Electromagnetic isolation Interface Protocol Standard: aligns with the recommendation of ITU-TG.703 Output Jitter Transfer: meets the recommendation of ITU-TG.735 Input Jitter Tolerance: meets the recommendation of ITU-TG.823 Output Jitter: meets the recommendation of ITU-TG.823
Ethernet Port	Interface Rate: 10/100Mbps Transmission Distance: 100m Protocol Standard: IEEE802.3 (support VLAN function) Line Code: Manchester code Operation Mode: 10/100Base-T(X) full/half duplex Interface Connection: RJ45 Interface Protection: 1500V Electromagnetic isolation Connection Cable: connect to PC through crossover cable; connect to HUB/SWITCH through straight through cable
Indicator	Power indicator, Ethernet port indicator, E1 indicator, loopback test status indicator
Power Supply	Desktop: 220VAC Rack-mounted: 220VAC or -48VDC
Power Consumption	≤2W
Environmental Limit	Operating temperature range:-25~70℃ Storage temperature range: -40~85℃

	Relative humidity: 5%～95%（no condensation） Atmospheric pressure: 86~106KPa
Physical Characteristic	Desktop ● Dimension (L x W x H): 227.4mm×146.3mm×42.7mm ● Shell: Plastic ● Weight: 260g Rack-mounted ● Dimension (L x W x H): 483mm×160mm×44mm ● Shell: Aluminum alloy ● Weight: 1.3kg
Certification	CE、FCC、RoHS
Warranty	Warranty period: 3 years

Ordering Information

Models	E1（BNC）	E1（BNC or RJ45）	10/100M Ethernet	Power Supply
MODEL7210	4	-	1	220VAC
MODEL7210-1U	-	4	1	220VAC or -48VDC

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