



S.G. INTERNATIONAL GROUP H.K. LIMITED

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➤ Application Component Device 4E1 BRIDGE and VDSL BRIDGE

■ 4E1 BRIDGE

PRODUCT INTRODUCE

4E1 bridge is specialized in SDH, PDH, microwave transmission with standard E1 interface without router, extending the Ethernet or connecting two Ethernet to lower networking cost. 4E1 Bridge converts the Ethernet data frame to HDLC frame to transmit in WAN. The Ethernet interface of the bridge is 10BASE-T, meeting IEEE802.3 standard. The rate of WAN interface ranges from 2M to 8M, meeting G.703 standard.

FEATURES

- Support MAC frame to transparently transmit in 1 to 4 lines of E1
- Support MII interface of IEEE802.3 protocol (10M full duplex)
- Support ITU-T G.703, G704 and G823. Not support using of signaling time slot.
- E1 CRC/non-CRC frame optional
- Support 1 to 4 lines of E1. Auto detect the number of E1 and delay when reset and choose the proper E1 to use
- Support auto recover of E1 lines when E1 line is transmitted transparently
- When 4 lines of E1 are unusable, the system will detect the status of E1 automatically.
- When E1 lines are transmitting transparently, and 4 lines of E1 are unusable, the system can detect the status of E1 automatically.
- Cut off the E1 which LOS or AIS is occurred, and inform the other end to cut off the corresponding line.
- Support remote system reset at local end
- Provide voice alarming. Provide E1 line looping parameters.

TECHNOLOGY PARAMETER

●Transmission Rate:

The lower limit of forwarding Ethernet packet is 1.92Mbps (depending on the lines of E1) , upper limit is 7.68Mbps.

●E1 Interface:

Interface rate: 2.048Mb/s±50PPM, HDB3 coding

Jitter tolerance compatible with G.823 standard, output jitter is lower than 0.05UI

●Ethernet Interface:

Operating at 10M full duplex mode

Support IEEE802.3 protocol

●Power supply: using external power adapter or -48V DC power supply

●Power: 5W

●Input: AC/220V±20% DC/48V±8V

●Operating temperature: 0~40°C

●Relative Humidity: 5%~90% (non-condensing)

●Size: 162.6×111×30(mm)

●Weight (Whole packet): 1300g

●Net weight (mainframe) : 630g

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ISO 9001:2000



Cert. #801532



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➤ Application Component Device 4E1 BRIDGE and VDSL BRIDGE

■ VDSL BRIDGE

PRODUCT INTRODUCE

SG VDSL Bridge uses the special VDSL broadband technology of the company to provide Ethernet connection without routers through normal telephone line. It can provide 10M bandwidth in the range of 1.5km. It is an ideal equipment to build up LAN, WAN or MAN at low cost.

FEATURES

- Using QAM line coding of VDSL technology, FDD full duplex mode
- Support the transparently transmission of MAC frame through normal telephone line
- Support IEEE802.3 protocol
- Provide symmetrical 10M in the range of 1km. The farthest transmission distance reaches 1.5km
- Use internal splitter which lower complexity of the installation

TECHNOLOGY PARAMETER

● Rate:

Symmetrically 10M in the range of 1km, up to 1.5km.

● External Interfaces:

● Interface for phone line: 2 RJ-11 (Internal splitter)

● Ethernet Interface: 1 RJ-45

● Ethernet Interface:

Operating at 10M full duplex mode

Support IEEE802.3 protocol

● Power supply:

Use external power adapter

● Input: AC220V±20%

● Power: 3W

● Operating Temperature: 0~40°C

● Relative Humidity: 5%~90% (non-condensing)

● Size: 162.6×111×30(mm)

● Weight (Whole packet): 1200g

● Net weight (mainframe): 580g

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