Turning Copper into Gold

E1 TO 4*Ethernet Protocol Converter

Overview

ATMEL-400FB is a high performance and self-learning long distance Ethernet bridge that could point-to-point transfer data from E1 channels to 4* Rj-45 interfaces. It is compact in size and low in cost and suitable to cost effective bridging application. It could be used as an extension or divider to LANs with bit rate base structure. This equipment could continuously learn the MAC addresses among the connected LANs and decide to transmit or filter. It has a table containing up to 10,000 addresses and it could be automatically updated. The filtering and transmitting rate is up to 20,000 frames, and the buffer could contain 256 frames, the transfer delay is 1 frame. When used as a LAN extension or divider, it works under the modes either filtering or filtering prohibited. China has an extensive resource in E1 channels and so this product is widely used in network connection.

Features

high quality Ethernet bridge/extension

Fully compatible with IEEE 802.3/802.3u,Ethernet v.2

Rate of percolation and transmission: 30,000 frame per second

Buffer: 256 frame

10,000 MAC address LAN table, and automatic LAN table learning and aging

Supply WAN line interface of the E1 and ITU-T G.703/704 standard

Transmission protocol of E1: HDLC

WAN line data rate: 2.048M

Line code: HDB3

Timing mode is selectable: Internal oscillator (default), Line clock derived from the receive signal

Internal power supply

RJ-45 connector: MDI/MDI-X auto-sensing

Type: standalone

Specifications

1、E1 Port

  Jitter: comply with G.742 and G. 823 standard

  Data rate: 64Kbps*N N=(1~31)

  Electric characteristic: comply with ITU-T G.703/704 standard

  Line code: HDB3

  Frame format: frame

  Interface impedance: 75Ω(BNC)/120Ω(BALANCE)Connector: BNC(75Ω)/RJ45 (120Ω)

2. Ethernet port

  Data rate: 10/100Mbps

  Connector: RJ-45

  4*Ethernet Ports

Supporting VLAN.,Complied to 802.1Q

  Electric characteristic: comply with IEEE 802.3 standard

  、Size: 212mm(W)×150mm(L)×38mm(H)

Typical Application