



**Model Name: EB03 (E1/Ethernet converter)**

## GENERAL INFORMATION

Model EB03 is a single port E1 with Ethernet Bridging that provides high-speed LAN-to-WAN connectivity. Plugging directly into the 10/100Base-T port of a hub or LAN switch, the E1-ETH provides E1 access at connection data rates of 2.048 Mbps. The E1-ETH is an excellent choice for internet access as well as LAN-to-LAN services

## PRODUCT CHARACTERISTIC

- Based on self-copyright IC.
- Ethernet port 10/100M half/full duplex self adaptable, supporting VLAN.
- RJ45 interface supports AUTO-MDIX.
- Provides 2 clock types: E1 master clock, E1 line clock.
- Provide LAN auto reset function, run more stably.
- Has the function of pseudo-random code testing, convenient for opening of the circuit, and can be used as an error code instrument.
- Have three LoopBack Modes: E1 interface LoopBack (ANA)、LAN interface LoopBack (DIG)、command the remote LAN interface LoopBack (REM) .
- BNC 75-ohm dual coax and RJ45 120-ohm twisted-pair G.703 connections provided, and support 75ohm/120ohm adapt ;
- With abundant presentation function of Ethernet data, can detect real-time data communication status.
- Can realize SNMP management in our chassis installation

## ENVIRONMENT REQUIREMENT

The temperature requirement is not very strict, the device can be working well under terrible environment.

- working temperature: 0°C - 50°C
- relative humidity: 95%(without coagulation)
- No erosive and impregnant gas, no rising dust, no strong magnetic field disturbing

## Power

Adapting module power, voltage range can be wide, with strong anti-jamming function.

With good insulation, stable working status is available

- power: -48V DC type, input voltage: -36V~-72V
- power: 220VAC type, input voltage: 190V~265V
- power: 110V DC type, input voltage: 100V~110V
- power consumption: <5W

## E1 Interface

- Line Rate: 2.048Mbps±50ppm
- Line Code : HDB3
- Interface Standard: ITU-T G.703
- E1 Impedance : 75Ω(unbalance) and 120Ω(balance)
- Connections : dual coax and 120-ohm twisted-pair (RJ45)
- Jitter tolerance : finer than G.742 and G.823

## 10/100Base-T Interface

Rate: 10/100M, full/duplex auto-negotiation

Protocol: Support IEEE 802.3, IEEE 802.1Q (VLAN)

MAC Address Entries: 4096 Entries

Total Memory Sizes: 64Mbits SDRAM

Physical interface: RJ45, support AUTO-MDIX

## DIMENSIONS

Mini type:210(W) × 140 (L) x 30(H) mm

19inch Type:433 mm (L) ×138mm (W) × 44 mm (H)

## Ordering information:

EB03/AC/MINI	mini typeE1-ETH converter, 75Ω, 120 Ω, 220V
EB03/DC/MINI	mini type E1-ETH converter, 75 Ω, 120 Ω, DC-48V
EB03/DC/MINI	mini type E1-ETH converter, 75 Ω, 120 Ω, DC110V
EB03/AC/19INCH	19inch rackmount E1-ETH converter, 75Ω, 120 Ω, 220V
EB03/DC/INCH	19inch rackmount E1-ETH converter, 75 Ω, 120 Ω, DC-48V
EB03/DC/INCH	19inch rackmount E1-ETH converter, 75 Ω, 120 Ω, DC110V
EB03/AC+DC/INCH	19inch rackmount E1-ETH converter, 75 Ω, 120 Ω, AC+DC

## Application

