

GFP based 8E1-4Eth Interface Converter



This converter provides conversion from 1 to 8 E1 channels to 4 Ethernet interfaces with a built-in switch. It supports 1 to 8 E1 channels setting, can detect the number of E1 channels and select available channels. It can reach 15.872 M bandwidth when 8 E1 channels work simultaneously. It transmits Ethernet signals (RJ45) via point-to-point to remote RJ45 interfaces, realizing connection between E1 channels and Ethernet, composing a bridge. It can satisfy real-time video, audio, and data transmission.

PRODUCT CHARACTER:

- (1) Based on self-copyright IC.
- (2) 4 Ethernet transmit transparent through 1-8 E1 channels with built-in switch.
- (3) Ethernet interface 10M/100M, full/half duplex configured by dip switch or self-negotiation.
- (4) Support AUTO-MDX/MDIX, straight and crossover auto-adapt.
- (5) E1 interface according with ITU-T G.703, G.704, and G.823, not support the use of signaling time slot.
- (6) E1 interface has built-in clock resume circuit and HDB3 codec circuit.
- (7) Local loopback supported.
- (8) Support E1 channel hot plug, and auto detect available E1 channels.
- (9) Support flexible setting of 1 to 8 E1 channels, auto detect the number of E1 channels and time-delay, select available E1 channels when reset.
- (10) Support reset remote system from local system.
- (11) Have Ethernet monitor self-reset function, device will not dead.
- (12) 75 Ohm or 120 Ohm E1 optional. Both AC and DC power input.
- (13) LOS, AIS and CRC alarm limitation can auto insulate bad quality transmit channels, and is single direction insulation. When one direction error rate over limitation, cut only this direction, the other direction not affected. (the two directions need not symmetry).

TECHNICAL SPECIFICATION:**E1 interface:**

interface standard: according to G.703

Interface Rate: 2.048Mbps±50ppm

Jitter tolerance: according to G.742 and G.823.

transmission capability: 8*E1

clock mode: inter-clock, line-clock

connector: BNC (75Ω) 、RJ48 (120Ω)

E1 Impedance: 75Ω(unbalance), 120Ω(balance).

10/100 Base-T interface:

Data Rate: 10/100Mbps (auto-negotiation supported)

Standard: Compatible with IEEE802.3

Connector: RJ-45

Full duplex (auto-negotiation supported)

Working environment:

power supply: AC220/110V; DC -48V

power consumption: ≤7W

working temperature: 0°C ~ 50°C

storage temperature: -40°C ~ +70°C

humidity: 95 %

Typical Application: