

Model: AT-MODS-E1

Framed E1 Fiber Modem

Overview

This device provides one Framed E1 interface and one optical interface to achieve interface conversion, rate conversion and timeslot extraction from E1 to Optical. When unframed mode, the data channel rate is 2.048Mbps. The device has inter-set loop test function to facilitate the project launching and daily maintenance

Product Photo



desktop Type

Features

- Based on self -copyright IC
- Can detect the reason of optical signal losing is that the device power-off or transmission fiber broken
- Provide 2 impedances: 75 Ohm unbalance and 120 Ohm balance;
- After strict testing and practical verification system, completely comply with protocol ITU-T G.703, G.704
- The hardware realizes any one of 31 time slot any time slot optional (valid when framed)
- Have three Loop Back Mode: E1 interface Loop Back (ANA)、V.35 interface Loop Back(DIG)、Command the remote V.35 interface Loop Back(REM)
- Have pseudo random code test function, easily line opened, can be used as a 2M BER Tester
- AC 220V, DC-48V, DC+ 24V, DC Power and Polarity-Free
- FE1 fiber modem can use with V.35 fiber modem, that can save a G.703/V.35 converter.

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Parameters

◆ Fiber

Multi-mode Fiber

50/125um, 62.5/125um,

Maximum transmission distance: 5Km @ 62.5 / 125um single mode fiber, attenuation (3dbm/km)

Wave Length: 820nm

Transmitting power: -12dBm (Min) ~ -9dBm (Max)

Receiver sensitivity: -28dBm (Min)

Link budget: 16dBm

Single-mode Fiber

8/125um, 9/125um

Maximum transmission distance: 40Km

Transmission distance: 40Km @ 9 / 125um single mode fiber, attenuation (0.35dbm/km)

Wave Length: 1310nm

Transmitting power: -9dBm (Min) ~ -8dBm (Max)

Receiver sensitivity: -27dBm (Min)

Link budget: 18dBm

◆ E1 Interface

Interface Standard: comply with protocol ITU-T G.703/704;

Interface Rate: n*64Kbps±50ppm;

Interface Code: HDB3;

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

Jitter tolerance: In accord with protocol G.742 and G.823

Allowed Attenuation: 0~6dBm

◆ Working environment

Working temperature: -10°C ~ 50°C

Working Humidity: 5%~95 % (no condensation)

Storage temperature: -40°C ~ 80°C

Storage Humidity: 5%~95 % (no condensation)

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Specifications

Functional Description	Framed E1 Fiber Modem , Provide 1* E1 transmission in optical fibers , 1-32 can choose any open slots
Port Description	One Fiber interface ; 1*Framed E1 Interface
Power	Power supply: AC180V ~ 260V ; DC -48V ; DC + 24V Power consumption: ≤5W
Dimension	Product Size: 216X140X31mm (WDXH)
Weight	1.2KG

Application

