

AT-ME3-FIBER

E3/DS3/STS-1 Fiber Modem

Overview

The function of E3/DS3/STS-1 optical fiber MODEM is to directly modulate E3/DS3/STS-1 data signal to single-mode or multi-mode optical fiber with a transmission rate of E3(34.368Mbps±20ppm)/DS3(44.736Mbps±20ppm)/STS-1(51.84Mbps±20ppm), which can be used as a channel for E3/DS3/STS-1 data .

Photo



Features

- Based on self -copyright IC
- Integrated Transmitter, Receiver, and Jitter Attenuator for DS3, E3, and STS-1
- Provide two fiber interface 1+1 protect (APS) function, one is Main fiber port, the other is back-up port(Optional).
- Provide 75 Ω unbalance coaxial cable, B3ZS/HDB3 decoding, and loss-of-signal monitoring.
- After strict testing and practical verification system, completely comply with protocol ITU-T G.703, G.751.
- Have three Loop Back Mode: Fiber interface Loop Back (ANA)、E1 interface Loop Back(DIG)、Command the remote E1 interface Loop Back(REM)
- Have pseudo random code test function, easily line opened, can be used as a BER Tester
- AC 220V, DC-48V, DC+24V, DC Power and DC-48V/DC24V power has polarity automatic detection function, you can install the device without differentiation between positive and negative polarity.

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Parameters



Fiber

Working humidity: 0%—95% (No condensation)

Optical port: 1

MTBF: > 100,000 hour

Optical Fiber: Single/Dual fiber

Fiber interface: FC/SC/ST/LC(SFP)

Wavelength: 850nm/1310nm Multimode;
1310nm/1550nm Single mode

Relay-free transmission distance: 20~120Km

Typical transmit power:

Single mode1310/1550nm: $\geq -9\text{dB}$

Multimode850nm: -18dBm

Multimode1310nm: -25dBm

Receive sensitivity range: $-28\text{dBm} \sim -40\text{dBm}$

Physical Interface: RJ45 Support Auto-MDIX



E3/DS3/STS-1 interface

Standard: Conform to ITU-T G.703 G.751

Code rate: E3(34.368Mbps $\pm$ 20ppm)

DS3(44.736Mbps $\pm$ 20ppm)

STS-1(51.84Mbps $\pm$ 20ppm)

Code type: B3ZS(DS3,STS-1)/HDB3(E3)

Impedence: 75 Ω (unbalance)

Connector: BNC (unbalance)

Cable at Lengths: 75 Coaxial Cable Up to 380m (DS3),
440m (E3), or 360m (STS-1)



Working environment

Operating temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Storage temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Specifications

Model number	AT-ME3-FIBER
Product Function Description	E3/DS3/STS-1 Fiber Modem
Business port description	1 optic ports; E3/DS3/STS-1 ports;
Power supply	AC220V / DC-48V /DC+24V (optional power supply)
Product Size	(L × W × H) 485* 140 * 45 mm 19 inch 1U rack (L × W × H) 216*140*31mm Desktop
weight	2.75KG/PCS 19 inch 1U rack , 0.75KG/PCS Desktop

Application

