



**Fiber Optical Modem FT-E1-M01**

### **Brief**

FT-E1M01 multi-service transmission equipment is manufactured based on our proprietary purpose-built integrated circuits. It integrates the traditional 2M E1, 10/100Base-Tx (max bandwidth: 100M), and N×64K V.35 services in one equipment so that it can operate both high-speed digital service and traditional TDM service in one pair of Fiber.

FT-E1M01 multi-service transmission equipment can also provide centralized rack structure for easy maintenance as well as plug and play, and at the same time, provide complete network management functions.

### **Features:**

- | Provide 1\*E1 route(75 or 120 ) + 1\*10/100Base-Tx Ethernet interface(can be adjusted by 0.5M and the max bandwidth 100M) + 1\* V.35 route(N\*64K);
- | The V.35 interface clock module, phase, time slot selection function can be set by means of the network management software;
- | Provide one RS232 asynchronous data interface;
- | Provide one management interface, realizing centralized monitor and supporting system update;

- | Provide a group of control switches, used for setting the test of equipment maintenance;
- | Adapt to large-scale chips, simple circuit, low power consumption, high reliability;
- | Adjust to many types of power supply environment: +24VDC, -24VDC, ±24VDC, -48VDC or 220VAC;
- | Small, light, stable and reliable operation and convenient installation.

**Technical Specifications:****Fiber Optic Interface**

- | Transmission optical power: -3dBm ~ -8dBm
- | Receiving sensitivity: -33dBm ~ - 40dBm
- | Fiber interface: dual SC/dual FC/single SC
- | Applicable fiber: single-mode, multi-mode

**Electrical Interface of E1**

- | Nominal rate: 2048Kbps , margin±50ppm
- | Interface code type: HDB3
- | Interface impedance: 75 (unbalanced) or 120 (balanced)
- | Electric features of digital interface: ITU—T G.703 recommendations
- | Jitter transfer performance: ITU-T G.823 recommendations
- | Input Jitter tolerance: ITU-T G.823 recommendations
- | Output jitter: ITU-T G.823 recommendations
- | Level: ±2.37V±10% or ±3.00V±10%
- | Interface connector: RJ45 or BNC coaxial

**Electrical Interface of V.35**

- | Interface speed: n×64K
- | No traffic control, transparent transmission
- | Interface connector: DB25 slot
- | Work mode: DCE, DTE optional

**Ethernet Interface**

- | Interface: 10/100Base-Tx, support auto-negotiation
- | Interface specification: compliance with IEEE-802.3u
- | Connector: RJ45

**Management Interface and Extend Port**

- | Interface: RS-232 ;
- | Interface connector: RJ-45 ;
- | Manage interface baud rate: 57600bit/s ;
- | Extend max baud rate: 19200bit/s。

**Power Supply**

- | DC voltage: -48VDC, margin: -36V~-72V
- | Power supply ripple: 240mVp-p
- | AC voltage: 220VAC±15% 50Hz
- | Power consumption: 10W

**Environmental**

- | Environmental temperature: 0 ~45
- | Relative humidity: 85% ( 35 )
- | Air pressure: 86~106Kpa

**Mechanical****Standalone (Mini Type)**

- | Dimension 200mm(Width)×45mm(Height)×145mm(Depth)