

FT-E1-3000 Modular Integrated Transmission Optical Multiplexer

- FT-E1-3000 Modular Integrated Transmission Optical Multiplexer adopts 1+1 dual fiber backup, interoperability, flexible structure and modular design. Its function modules are independent to each other but easy to compose, this enables it to derive a series of optical multiplexers with multiple traffic interfaces. FT-E1-3000 provides 4 modular slots, users can select different interfaces module according to their network requirements and add or replace interface modules to meet various kinds of requirements of applied environment to protect capital already invested in the business. Meantime, FT-E1-3000 allows users to activate extension interface to adjust the scale of network interface according to business development, this helps to realize real-time follow-up of network to business.

Features:

- **Optical Backup:** Set up E3 or E6 switch or mandatory switch of optical path to meet requirements of network of high reliability;
- **Network Management:** Easy for network management by using RS485 network management connector;
- **Easy to configure:** combination of main board and various functions modules can produce 4/8/12/16 E1 optical multiplexers and multiple optional traffic interfaces to meet requirements and customized demands of different users
- **Various functional modules:** interface modules (N x 64k V.35, V.35, FXO/FXS, E/M, RS232/RS485, etc.) Official business module, network management module (RS422/485, RS232, 10Base-T interface etc.) Optical backup module (E3 or E6 switch or mandatory switch of optical path) RS232 number By-channel module, warning leading-out terminal module, switch quantity channel module, etc.
- **Complete alarm functions:** monitor alarm status of remote equipments
- **Abundant loop-back test function:** each E1 channel possess individual loop-back test in local and terminal side
- **30KM transmission wavelength without repeater (up to 80KM)**
- **Highly integrated, modular design, 1 U height, 19"**
- **Convenient to extend capacity:** FT-E1-3000 has preliminary cascade interface, which facilitates cascading to optical multiplexer with higher E1 capacity
- Technical Specification:

Electrical:

- Bit rate: 2.048Mbps \pm 50ppm
- Maximum transmission rate: 100Mbps/s
- Interface type: V.35 / DCE
- Choose different interface types to accord with corresponding standards

Optical:

- Bit rate: 100Mbps/s
- Line code: 4B1H
- Optical source: LD
- Typical output power: \geq -9dBm
- Receiver type: PINFET
- Receiver sensitivity: \leq -38dBm (BER \leq 10⁻¹¹)
- Optical connector: FC/SC
- Wavelength: 1310/1550nm

Physical:

- Stand-alone:
- Dimension: 440mm x 43.5mm x 150mm
- Weight: 1.5kgs
- Rack type: EIA 19" rack

Environment:

- Power input: AC 220V & DC -48V optional
- Power consumption: \leq 5W
- Temperature: -5°C~40°C for operation - 20°C~60°C for storage & transport
- Humidity: 10%~90% , non-condensing
- No corrosive and solvent Gas, no fluty dust and intense magnetic field interface