

OTM1000

Modular Integrated Access Multiplexer

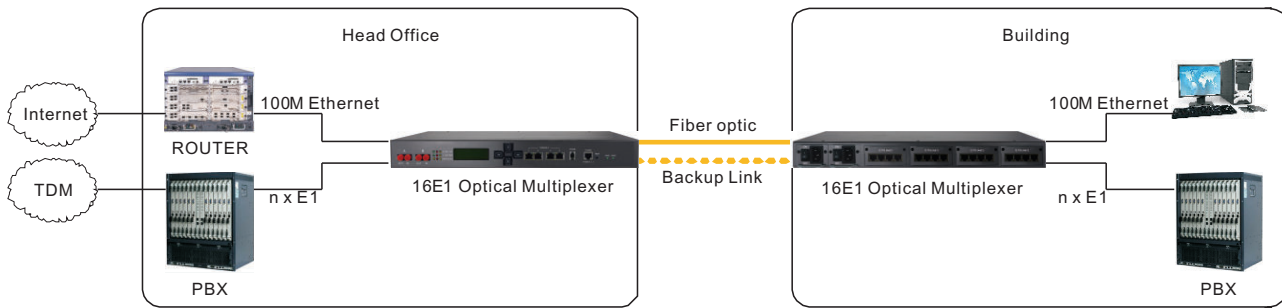


- 4-slot for high density applications
- Support E1/FXS/FXO/EM2-4/V.24/V.35/RS232/RS485
- 4-port Full bandwidth 100 Mbps and VLAN QinQ
- Support E1 loopback and BERT function with LCD
- Support dual fiber port 1+1 protection and Automatic Protect Switch (APS)
- Support automatic laser shut down (ALS)
- Configure via CLI/SNMP (v1/v2)
- -48VDC or 220VAC flexible power inputs

Overview

This device applies large-scale integrated circuit developed independently as its hardware and can handle multiple 16-channel E1 signal, 4-channel 100M Ethernet on dual optical fiber to realize the hybrid transmission. Various Functional Modules: User interface modules (N×64K V.35, FV.35, FXO/FXS, E/M, RS232/RS485, and etc.), order wire module, network management module (RS232, and Ethernet Interface, etc.), and alarm output terminal module, etc. available.

Typical Applications



In private networks, 16E1 Optical Multiplexer shares services such as E1, Ethernet, Order Wire Phone, in P2P topologies over fiber. 16E1 Optical Multiplexer establishes TDM and Ethernet connectivity between the remote branches and headquarters for educational, financial, military sectors.

Specifications

Fiber Interface (Main and backup)

- Number of Ports: 2(1+1)
- Optical wavelength: 850/1310nm for multi-mode fiber, 1310/1550nm for single-mode fiber.
- Transmission distance: 20-120Km
- Fiber Optic Interface Type: SFP/FC/SC
- Data Rate: 150 Mb/s(GRANCOM proprietary)
- Typical output power: single mode 1310/1550nm: ≥-9dBm(dual fiber) multi-mode 850nm: ≥-18dBm multi-mode 1310nm: ≥-25dBm
- Receiver Sensitivity: ≤-35dBm(BER≤10-11) (dual fiber) Dual optical interface module is supplied that supports hot swap. No error code occurs in the case of optical interface switching.

E1 Interface

- Interface Standard: compatible with ITU-T G.703 G.823
- Bit rate: transmission port 2048Mbps±50ppm
- Line Code Pattern: HDB3
- Interface Impedance: 75Ω/120Ω
- Interface Connector: Q9(75Ω)/RJ45(120Ω)

Fast Ethernet Interface

- Number of Ports: 4
- Type: 10/100Mbps, auto-negotiation, full/halfduplex, flowcontrol, MDI/MDX crossover
- Compliance: IEEE 802.3, 802.3u and 802.1p&q
- Max Frame Size: 2047Byte
- Number of VLANs: 1-4094 with 16 VLAN support
- Port-Based VLAN: Untagged, tagged, transparent or double tagged
- LAN Table: 2KMAC
- Connector: RJ-45
- Electrical Cable Type: Cat.5

Environmental Limits

- Operating Temperature: 0 to 50°C (32~122°F)
- Ambient Relative Humidity: ≤90% RH (non-condensing)

Order Wire Interface

- Number of Ports: 1
- Interface Standard: RJ-11
- Bandwidth: 64Kb/s
- Coding: PCM

Slots Interface

- Number of slots: 4
- Available Slide-in Modules: OTM1000-2V35: 2-port V.35 card OTM1000-2V24: 2-port V.24 card OTM1000-4RS232/RS485: 4-port RS232/485 card OTM1000-4E1-120: 4-port E1 120ohm card OTM1000-4E1-75: 4-port E1 75ohm card OTM1000-4FXS: 4-port FXS card(Planning) OTM1000-4FXO: 4-port FXO card(Planning) OTM1000-4EM2/4: 4-port EM2-4 card(Planning)

Management Ports

- Console Port Interface standard: RS-232 Connector: RJ-45 to DB9 Data rate: 9.6 kbps
- Out-of-Band Ethernet Management Port Interface: 10/100BaseT Connector: RJ-45
- SNMP: SNMP(V1/V2)

Power Requirements

- AC: 100V~260V/50Hz
- DC: -36V ~ -72V
- Power Consumption: ≤10 watts

Physical Characteristics

- Housing: Metal
- Weight: 3.0 kg (6.6 lb.)
- Dimensions: 440 x 260 x 44.5mm(17.3×10.2×1.75in.)

Address : Perpa Ticaret Merkezi, A Blok No.516 Şişli/İstanbul | Tel : +90 212 3204030 | Fax : +90212 3200255 | e-mail : info@telkolink.com

www.telkolink.com

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Ordering Information

Available Models	Description
OTM1000-AC	Modular Integrated Access Multiplexer Chassis, single AC dual power input, with 4 slots
OTM1000-DC	Modular Integrated Access Multiplexer Chassis, single DC dual power input, with 4 slots
OTM1000-AD	Modular Integrated Access Multiplexer Chassis, Dual AC and DC dual power, with 4 slots

Available Slide-in Modules	Description
OTM1000-2V35	2 channel V.35 (N*64K, N=1 to 32) ; Connector: DB25 Female
OTM1000-2V24	2 channel V.24 (Syn:64K/128K; Async: Baud Rate 300 to 115200) ; Connector: DB25 Female
OTM1000-4RS232	4 channel RS232 (Baud Rate 300 to 115200) ; Connector: RJ45
OTM1000-4RS485	4 channel RS485 (Baud Rate 300 to 115200) ; Connector: RJ45
OTM1000-4E1-120	4 channel E1, balanced: 120Ω, RJ45
OTM1000-4E1-75	4 channel E1, unbalanced: 75Ω, RJ45
OTM1000-4FXS	4 channel FXS; Connector: RJ45
OTM1000-4FXO	4 channel FXO; Connector: RJ45
OTM1000-4EM2-4	4 channel EM2-4; Connector: RJ45

Address : Perpa Ticaret Merkezi, A Blok No.516 Şişli/İstanbul | Tel : +90 212 3204030 | Fax : +90212 3200255 | e-mail : info@telkolink.com

www.telkolink.com

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