

## AT-MUX- LCD4000

### Product Description

This device has the console control , provides the 1+1 fiber path protection, point to point optical transmission, LCD display, on the basic of our company development of the PDH optical transmission, use the special VLSI and the SNMP NMS.

The device provides 1-16Channel E1 interface, 1-4Channel 10M/100M Ethernet interface (Line Rate 100M) and 2 expansion interface. 4Channel Ethernet interface is switch interface, can support VLAN. 2 expansion interface can be used as the transmission channel of RS232/RS485/RS422 asynchronous data, voice signal, 2/4-line E&M audio signal, switch signal, Ethernet signal (Bandwidth 2M). It is very flexible. It has alarm function. The work is reliable, stable, and low power consumption, high integration, small size

### Functional Properties

- Provides 16 E1 transparent transmission;
- With char 16\*2 LCD display and SNMP agent inside
- Provide Console manage interface (RS232)
- Provide two fiber interface 1+1 protect (APS) function (Automatic Laser Shutdown/Reduction function
- Provide 4 100M line Ethernet channel support mutual Ethernet bandwidth is set on base on multiple of 32K
- Provide one hotline channel for option,
- Provide two fiber interfaces, one as master, the other as slave, insuring uninterrupted service transmission
- The rate of optical port is 150Mbps, transmission range can reach 25KM, 40KM, 60KM, 80KM or 100KM;
- E1 interface code is HDB3, E1 vibration characteristic conforms to ITU-T G.703、 G.823 and G.742;
- Ethernet port supports full/half duplex, 10M/100M auto-adaptable ;
- Ethernet port supports VLAN function and has 4division mode for user selection;
- Ethernet package size support 1916 byte and 4 Ethernet port could be set separately ;
- Has complete alarm function and can monitor remote device status;
- Supports E1 loop from remote so as to detect and manage device conveniently;
- The combination AC220V and DC-48V for redundant



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negotiate,

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

## Fast Ethernet Interface

- Number of Ports: 4 RJ 45
- Type:10/100Mbps, auto-negotiation, full/half duplex, flow control, MDI/MDXcrossover
- 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

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## Order Wire Interface

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

### FXS phone port

- Coding: PCM
- Ring voltage : 75V
- Ring frequency : 25HZ as per G.712
- Two line input impedance : 1200 $\Omega$ (hanging off)
- Wastage : 40 db

### FXO switch port

- Coding: PCM
- Ring test voltage : 35V
- Ring test frequency : 17HZ-60HZ as per G.712
- Two-line input impedance : 600 $\Omega$ (hanging-off)
- Wastage : 40 db

## Slots Interface

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

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## Management Ports

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

## Physical Characteristics

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

## Environmental Limits

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

## Power Requirements

- AC: 100V~260V/50Hz, DC: -36V ~ -72V, P o w e r Consumption: ≤10W

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