32Voice+4E1+4GE+4RS232 Fiber Multiplexer

P/N: ITT-MU1445

This device provides 32Channel telephone 1-4Channel E1 interface, 4Channel 1000M Ethernet interface (Wire speed 1000M) and 4 expansion interface. 4Channel Ethernet interface is switch interface, can support VLAN. 4 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). SNMP or Console management is optional. It is very flexible.

Features:

- **Based on self -copyright IC**
- **E1 interface comply with G.703, adopts digital clock recovery and smooth phase-lock technology Voice port supports FXO and FXS port,**
- **Support FXO/FXS, EM2/4 audio, Magnet telephone Interface, FXO port docking with program-controlled switchboard, FXS port connected to the user's telephone;**
- **1~32channel Voice access, supports caller ID feature and reverse polarity billing functions**
- **Support various sites mutual number allocation function**
- **Provide 4 expansion interface, you can extend 1~4Channel asynchronous data, such as RS232/RS485/RS422/Manchester code;1~4Channel voice, 1~8Channel switch or two/four line audio and so on**
- **Ethernet interface supports1000M, half/full duplex auto-adaptable, support VLAN**
- **4Channel Ethernet interface is switch interface, support VLAN, can set to 4 channel logical isolation**
- **Ethernet interface can support AUTO-MDIX (crossed line and straightly connected line self-adaptable)**
- **Telephone interface with lightning protection, lightning reached IEC61000-4-5 Short circuit current wave 8 / 20µs, the peak output voltage 6KV open standards**
- **The transmission distance is up to 2-120Km without interruption**
- **AC 220V, DC-48V, DC24V can be optional**

◆ 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:	comply with protocol G.703;
Interface Rate:	n*64Kbps±50ppm;
Interface Code:	HDB3;
E1 Impedance:	75Ω (unbalance), 120Ω (balance);

Jitter tolerance: In accord with protocol G.742 and G.823
Allowed Attenuation: 0~6dBm

◆ **Ethernet interface(10/100/1000M)**

Interface rate: 10/100/1000 Mbps, half/full duplex auto-negotiation

Interface Standard: Compatible with IEEE 802.3, IEEE 802.1Q (VLAN)
MAC Address Capability: 4096
Connector: RJ45, support Auto-MDIX

◆ **FXS Phone Interface**

Ring voltage: 75V
Ring frequency: 25HZ
Two-line Impedance: 600 Ohm (pick up)
Return loss: 40 dB

◆ **FXO Switch Interface**

Ring detect voltage: 35V
Ring detection frequency: 17HZ-60HZ
Two-line Impedance: 600 Ohm (pick up)
Return loss: 40 dB

◆ **EM 2/4 Line**

AD: 0dB
DA: -3.5dB
Two/Four-line Impedance: 600 Ohm
Return loss: 20 dB

◆ **Working environment**

Working temperature: -10°C ~ 50°C
Working Humidity: 5%~95 % (no condensation)
Storage temperature: -40°C ~ 80°C
Storage Humidity: 5%~95 % (no condensation)

Functional Description	32 * telephone, 4E1, 4*1000 Mbps Ethernet, Console or SNMP, Support 6U rackmount, One or Two Fiber interface, 4*RS232/422/485
Power	Power supply: AC180V ~ 260V ; DC −48V ; DC + 24V Power consumption: ≤10W
Dimension	Product Size: 485X138X45mm(WXDXH) 19 1U
Weight	2.5KG