

16Voice + 4FE -to- E1 Multiplexer

Overview:

Most clients of telecom operators rent E1 line for Ethernet net working, while this equipment could supply more telephone lines on E1 and free call between head office and branch.

This equipment provides an E1 access, 1~16 channel voice outputs, 4*10/100M Ethernet optional (bandwidth 2M) and 4channel data (RS232/422/485 (optional), the electricity part is digital circuit. The superiority of this product is reliable work and stable with high integration and lower energy consumption. Small size for easy install and maintenance.

Product Photo:



TSM-EV164 19inch 1U type

Features:

- Based on proprietary integrated circuits;
- Alarm status can be monitored on the end;
- E1 interface complies with G.703, all-digital clock recovery and smooth phase-locked technology;
- Support FXO/FXS, EM2/4 audio, Magnet telephone Interface, FXO port and PBX docking port and the user is connected to FXS telephone;
- Optional: Providing four expansion interface , can be extended from 1 to 4 asynchronous data, such as RS232/485/422/Manchester codes; Or 1 to 8*channel dry contact interface etc.;
- Ethernet interface 10M/100M, full/half duplex fully adaptive, support VLAN division;
- Each Ethernet ports support Auto-MDIX (cross / straight cable adaptation);
- 1line voice access, support caller ID function and reverse polarity billing functions;
- Support Telephone Number mutual function of each site;
- E1 signal can be detected as a barrier to the end device is lost or shut E1;
- Provide two kinds of clock ways: E1 master clock, E1 line clock;
- Provides three kinds of loopback: E1 local loopback (ANA), the Ethernet interface to the remote loopback (DIG),command peer Ethernet interface to the local loop (REM);

- There are pseudo-random code test function (PATT), to facilitate the opening line, which can be when one of E1 BERT to use;
- E1 channel in addition to the phone and the remaining time slots can be to Ethernet and if 16 channels telephones full opening, the rate is up to of 15*64K. If only eight telephones lines opened, the rate is up to of 23*64K. If only 4 telephones lines opened, the rate can be 27*64K,
- Multiple power mode options: AC220V, DC-48V / DC24V, etc;
- Telephone interface with lightning protection, lightning reached IEC61000-4-5, Short circuit current wave 8/20µs, open-peak output voltage 6KV standards

Parameters:

◆ **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

◆ **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: 0dB
Two/Four-line Impedance: 600
Ohm
Return loss: 20 dB

◆ **Ethernet interface(100/100M)**

Interface rate:
10/100 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

Working environment

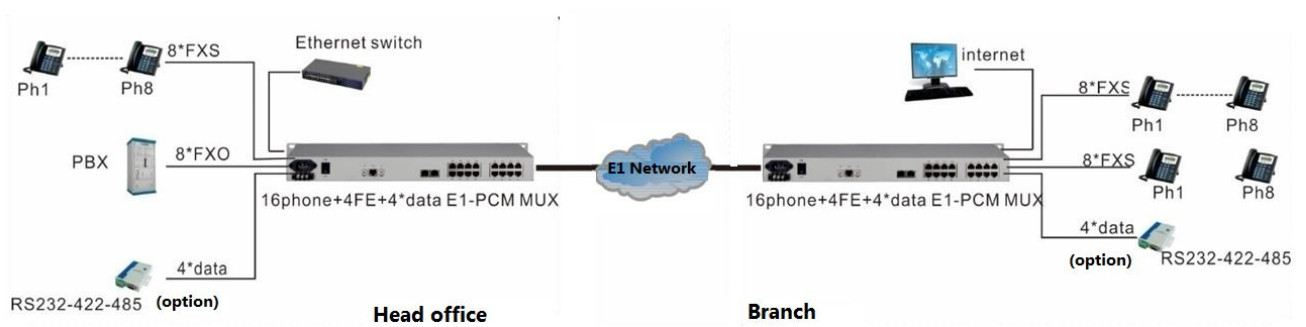
Working temperature: -10°C ~ 50°C
Working Humidity: 5%~95 %
(no condensation)
Storage temperature: -40°C ~ 80°C
Storage Humidity: 5%~95 % (no condensation)

Specifications:

Model	FCC-E1O16F4R4C1/FCC-E1S16F4R4C1
Functional Description	E1-16*Voices+4FE+4RS-232/422/485,Console,19"inch 1U ,Support 6U rackmount
Port Description	One E1 interface ; 16*Voices ; 4*FE; 4*RS232
Power	Power supply: AC180V ~ 260V ; DC -48V ; DC +24V Power consumption: ≤10W
Dimension	Product Size:19inch 1U 483 (Length) X138 (Width) X44 (height) mm
Weight	2.5KG

Application:

typical solution 1-----HotlineAccess



typical solution 2-----Ordinary voice Access

