PCM-30 Multiplexer

This product is elementary equipment for digital communication system, also called PCM group bank equipment. It gathers signals such as FXS FXO, Ethernet, RS232/422/485, V.35, E&M… into a standard 2M E1 interface and achieves the point-to-point transmission of these signals.

Features:

a) **E1 as main link.** It provides 30 lines of user interfaces of (FXS, FXO, RS232, RS485, RS422, V.35, V.24, Ethernet, G.703 64K, 2-wire, 4-wire Voice, 2/4-wire E/M);

b) Voice interface with caller ID and counter-pole signal;

c) Perfect status display function, easy to maintain;

d) Small bulk, attractive appearance, convenient installation and operation.

Technical Specification

**E1 Uplink Interface**

- Standard E1 interface in conformity with ITU-T G.703, G.704, G.712
  
  a) Bit rate: 2048Kbps±50ppm
  
  b) code pattern: HDB3
  
  c) interface impedance: 75Ω

**FXS FXO interface**

a) impedance: 200Ω+680Ω||0.1μF

b) insertion loss: -3±0.75dB

c) frequency characteristic: 300~3400Hz(-0.6~+3dB)

d) cacophony: ≤63.7dBmop cacophony

e) crosstalk attenuation: ≥65dB
2 lines/4 lines audio frequency interface (2 lines/4 lines E&M interface)

- Impedance: 200Ω+680Ω||0.1μF
- 4 lines AD gain: 14 dB(tunable)
- 4 lines DA gain: -2 dB(tunable)
- 4 lines AD frequency characteristic: -0.2 - +0.2dB
- 2 lines AD frequency characteristic: -0.2 - +0.2dB
- 2 lines DA frequency characteristic: -0.2 - +0.2dB
- Return loss: 40dB
- Degree of balance: 70dB
- Mutual module rejection ratio: 70dB
- Power rejection ratio: 30dB
- Spare channel noise: ≥65dB
- Loop impedance: 600Ω

V.35 interface
- Interface type: V.35 synchronous
- Speed: Nx64Kb/s (N = 1-15)
- Timing mode: DCE

10Base-T interface
- Interface type: 10Base-T
- Transmission speed: Nx64Kb/s (N = 1-15)
- Protocol: link layer bridging

RS232 interface
- Speed: ≤19.2kbps auto-negotiation
- Mode: Asynchronous Receiver/Transmitter
- Physical Interface: RJ45 jack

RS232(synchronous) interface
- Interface type: V.24 asynchronous (simplex, duplex is optional)
- Rate: 4800bps, 9600bps, 19200bps, optional
- Clock mode: DCE, DTE, optional

Environment
- Power Input: -36V~72V DC input
- Operating temperature: 0℃~50℃
- Storage temperature: -20℃~80℃
- Humidity: 5%~90% (35℃)
- No corrosive and solvent gas, no fluty dust and intense magnetic-field interference
- **Mechanical Parameter**

  19 inch standard frame: 210mm (D) × 480mm (W) × 44mm (H)