

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: $200\Omega+680\Omega\parallel 0.1\mu F$
- b) insertion loss: $-3\pm 0.75\text{dB}$
- c) frequency characteristic: 300~3400Hz(-0.6~+3dB)
- d) cacophony: $\leq 63.7\text{dBmop cacophony}$
- e) crosstalk attenuation: $\geq 65\text{dB}$

2 lines/4 lines audio frequency interface (2 lines/ 4 lines E&M interface)

- a) Impedance: $200\Omega + 680\Omega \parallel 0.1\mu F$
- b) 4 lines AD gain: 14 dB(tunable)
- c) 4 lines DA gain: -2 dB(tunable)
- c) 4 lines AD frequency characteristic: -0.2 - +0.2dB
- f) 2 lines AD frequency characteristic: -0.2 - +0.2dB
- g) 2 lines DA frequency characteristic: -0.2 - +0.2dB
- h) Return loss: 40dB
- l) Degree of balance: 70dB
- j) Mutual module rejection ratio: 70dB
- k) Power rejection ratio: 30dB
- m) Spare channel noise: $\geq 65\text{dB}$
- n) Loop impedance: 600Ω

V.35 interface

- a) interface type: V.35 synchronous
- b) speed: $N \times 64\text{Kb/s}$ (N =1-15)
- c) timing mode: DCE

10Base T interface

- a) interface type: 10Base-T
- b) transmission speed: $N \times 64\text{Kb/s}$ (N = 1-15)
- c) protocol: link layer bridging

RS232 interface

Speed: $\leq 19.2\text{kbps}$ auto-negotiation
Mode: Asynchronous Receiver/Transmitter
Physical Interface: RJ45 jack

RS232(synchronous) interface

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

Environment

- Power Input: -36V~-72V DC input
- Operating temperature: $0^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- Storage temperature: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
- Humidity: 5%~90% (35°C)
- 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)

