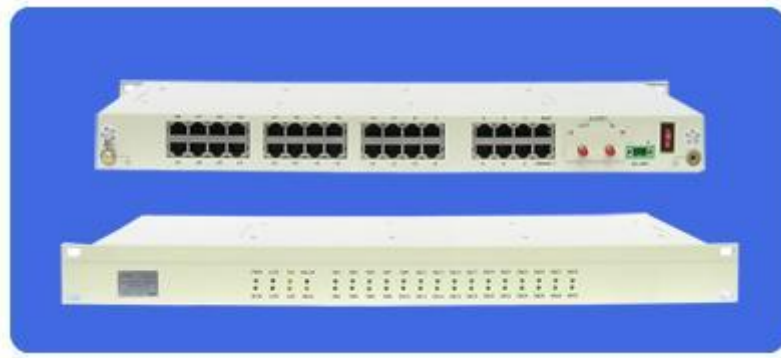


## PCM-30 Multiplexer



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)

- |   |                  |
|---|------------------|
| a) Impedance:                           | 200Ω+680Ω  0.1μF |
| 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:                 | ≥65dB            |
| n) Loop impedance:                      | 600Ω             |

V.35 interface

- |                    |                    |
|--------------------|--------------------|
| a) interface type: | V.35 synchronous   |
| b) speed:          | Nx64Kb/s (N =1-15) |
| c) timing mode:    | DCE                |

10Base T interface

- |                        |                     |
|------------------------|---------------------|
| a) interface type:     | 10Base-T            |
| b) transmission speed: | Nx64Kb/s (N = 1-15) |
| c) protocol:           | Link layer bridging |

RS232 interface

Speed: ≤19.2kbps 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℃~+50℃
- Storage temperature: -20℃~+80℃
- Humidity:5%~90% (35℃)
- No corrosive and solvent Gas, no fluty dust and intense magnetic-field interference