

PCM-300 4/8E1+2Eth+1~32(FXO/FXS/RS232/V35/E&M/G64K)

Optical Multiplexer



PCM-300 optical multiplexer is broadband multi-service access device. It uses fiber as transmission medium, providing the customer 2 lines 100Mb/s Ethernet data accession, 4 or 8 lines E1 (2Mb/s) transmission channel and 32 lines common interface(including FXO, FXS, 2 lines audio frequency, 4 lines audio frequency, 2 lines E&M, 4 lines E&M, RS422, RS485, magnet telephone, hot line, V.35, 64 Kbit/s co-directional data interface, and so on), the customer can assemble the user interface from 1 to 32 lines freely. This device meets the customer's needs for traditional narrowband service and popular broadband service.

Features:

- a) Provides 2 lines 100Mb/s Ethernet interface, 8 lines E1 interface and 32 lines optional customer interface;
- b) Abundant service interfaces are (FXS, FXO, RS232, RS485, RS422, V.35, V.24, Ethernet, G.703 64K, 2-wire, 4-wire Voice, 2/4-wire E/M) convenient for the reception of multi-service;
- c) Voice interface supports caller ID function;
- d) Perfect status showing function for convenient maintenance and management;
- e) Small size, attractive appearance, easy to install and operate it;

Technical Specification

Link interface: optical interface

- a) Bit rate: 155.52Mbps±20ppm
- b) Code type: NRZ+ scrambler
- c) Transmitting optical power: > -5dB ~ -17dB

E1 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 or 120Ω

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

RS232(asynchronous) interface

- a) Interface type: V.24 asynchronous
- b) Rate: 0 – 19.2Kbps

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

V.35 interface

- a) Interface type: V.35 asynchronous
- b) Rate: Nx64Kb/s(N=1-30)
- c) Clock mode: DCE

10/100Base_T interface

- a) Interface type: 10/100Base-T
- b) Interface rate: 10M/100Mbps, adaptive
- c) Transmission rate: 100Mbps

·Environment

- Power Input: -36V~-72V DC input
- Operating temperature: 0°C~+50°C

- Storage temperature: -20°C~+80°C
- Humidity: 5%~90% (35°C)
- No corrosive and solvent Gas, no fluty dust and intense magnetic-field interference

·Mechanical Parameter

Standalone(19): Dimension: 260mm×480mm×44mm