MC-FXO-16-SC20A & MC-FXS-16-SC20B

User Manual



[Product introduction]

MC-FXO-16-SC20A and MC-FXS-16-SC20B are 16CH POTS over fiber converters using the most advanced digital multiplexing communications solutions and fiber optic transmission technology, which can transmit analog and PSTN telephones or Ethernet data signals on a single fiber in real-time synchronization, no distortion, high quality. Plug and play design makes installation easy, no need for field settings and adjustment. Please use FXO unit as a transmitter to connect with PBX analog phone lines and use FXS unit as a receiver to link with your telephone sets or fax machines. We offer Two-year standard warranty.

[Package List]

16 Channel POTS Converter: 1 pair (2 units)
AC-DC5V 5A External Power Adapter: 2 pieces
User manual: 1 copy

[Product Features]

- All-digital uncompressed transmission
- PCM Pulse Code Voice 64Kbps per channel
- Clear voice quality, stable and reliable calls
- Industrial design and Support caller ID/Fax
- Power and fiber optic link LED lights indicate the state of equipment
- Low power consumption, low heat and hot swap

Technical Parameters

Telephone Channel: 16

Phone Connector: 16 x RJ-11 Jack

Voice bandwidth: 8kHzWeighted noise: <63.7dBmop

• Distortion: <1%

Signal to Noise Ratio: >95db

• Fast Ethernet Port: 1

• Maximum. Bandwidth: 10/100Mbps

Ethernet Connector: RJ45

FXS Telephone Mode

Ring Voltage Peak: AC110 - 150V

Ringing Voltage: AC90±15VRing Frequency: 22 - 28Hz

Input impedance: 600Ω

Return Loss: 20db

Insertion Loss: -3±0.75dB

Frequency characteristics: 300~3400Hz(-0.6~+3dB)

Crosstalk attenuation: ≥65dB

FXO Switch Mode

Ringing Voltage: 35V – 150V
 Ring Frequency: 17 - 60Hz
 Input impedance: 600Ω
 Return Loss: 20dB

Optical Interface

Bit rate:1.25Gbps±20ppm
 Line code: NRZ+ Scrambler
 Wavelength: 1310nm and 1550nm
 WDM 1310Tx/1550Rx (type A)
 1550Tx/1310Rx (type B)

Transmit optical power:>-12dBm

Receiver sensitivity:<-30dBm

• Fiber connector: SC

[Environmental Requirements]

Operating Temperature:-30°C∼+75°C

Relative humidity: 0~95% (Non condensing)

Power Input: AC90-260V to DC5V 5A

MTBF: ≥100000h

• Dimensions: 485 x 135 x 40mm (W x D x H)

Net Weight: 1.5Kg

Power Consumption: ≤10W (Input: DC5V 5A)

【LED Indicators】

Name	LED Indications	Status Descriptions
Power	Always ON	Power work normal
Fiber	OFF	Fiber doesn't pass
	ON	Fiber Link OK
Phone Line	OFF	Not in use or failed
	ON or Flashing	Work Normal

[Applications]

- Metro optical broadband network: Telecommunications, network System integration and other data network operators.
- Communications professional network: Applies to finance, government, oil, railway, electricity, public security, transportation, education and other industry professional networks.
- ◆ Multimedia transmission: Voice, data and integrated transmission.
- Resistance to harsh environments: Applicable to strong electromagnetic interference, long-distance network under harsh environments.

【Connection Diagram】



Ordering Information:

MC-FXO-16-SC20A and MC-FXS-16-SC20B:

Use one single mode fiber, SC and WDM transmission up to 20Km and use one multi-mode fiber and transmission up to 2Km.



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