

MC-FXO-2-SC20A & MC-FXS-2-SC20B

User Manual



【Product introduction】

MC-FXO-2-SC20A and MC-FXS-2-SC20B are 2CH 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. So they need to be used in pair. Two year standard warranty.

【Package List】

2 Channel POTS Converter: 1 pair (2 units)
 AC to DC5V 1A/2A Power Adapter: 2 pieces
 User manual: 1 copy

【Product Features】

- All-digital uncompressed transmission
- PCM Pulse Code Modulation
- Clear voice quality, stable and reliable calls
- Power and fiber optic link LED lights indicate the state of equipment
- Low power consumption, low heat, stable operation for a long time
- Industrial grade design -35°C ~ +75°C
- Protocol: IEEE802.3, IEEE802.1Q (VLAN)

【Technical Parameters】

- Telephone channel: 2
- Phone Connector: 2 x RJ-11 Jack
- Voice bandwidth: 8kHz

- Distortion: <1%
- Weighted noise: <63.7dBmp
- Signal to Noise Ratio: >95db
- Fast Ethernet Port: 1
- Maximum Bandwidth: 10/100Mbps
- Ethernet Connector: RJ45

FXS Telephone Mode

- Ring Voltage Peak: 110 - 150V
- Ringing Voltage: AC90±15V
- Ring 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

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

Optical Interface

- Bit rate: 155Mbps±20ppm
- Line code: NRZ+ Scrambler
 Wavelength: 850nm, 1310nm, 1550nm
 WDM 1310Tx/1550Rx (type A)
 1550Tx/1310Rx (type B)
- Transmit optical power: >-12dBm
- Receiver sensitivity: <-30dBm
- Fiber connector: SC

【Environmental Requirements】

- Operating Temperature: -35°C ~ +75°C
- Relative humidity: 0~95% (Non condensing)
- Power Input: AC90-260V to DC5V 1A/2A
- MTBF: ≥100000h
- Dimensions: 97 x 110 x 25mm (W x D x H)
- Net Weight: 210g
- Power Consumption: ≤10W (Input: DC5V 1A)

【LED Indicators】

Name	LED Indications	Status Descriptions
Power	Always ON	Power work normal
Fiber	OFF	Fiber doesn't pass
	ON	Fiber Link OK
Ethernet	Amber ON	Ethernet Connected
	Green ON	Data Transmission

【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 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-2-SC20A:

Use one single mode fiber, SC and WDM T1310/R1550nm transmission up to 20Km or use one multi-mode fiber, SC and WDM T1310/R1550nm transmission up to 2Km.

MC-FXS-2-SC20B:

Use one single mode fiber, SC and WDM T1550/R1310nm transmission up to 20Km or use one multi-mode fiber, SC and WDM T1550/R1310nm transmission up to 2Km.



**664 Wagner Court
 North Wales, PA 19454
 USA
 Tel: 1-610-239-8812
 Fax: 1-215-699-3348
 Email: Support@megatelindustries.com
www.megatelindustries.com**