

Voice Over Fiber Converter

MC-FXO-2

MC-FXS-2



MC-FXO-2 and MC-FXS-2 are 2 channel POTS (Plain Old Telephone System) over fiber converter / extender. This Voice over Fiber converter uses RJ-11C modular connectors for each copper pair connection. A pair of MC-FXO-2 and MC-FXS-2 is required to implement an end to end system. FXO type unit connects to a telephone line (PSTN) or PBX station line and has ability to detect ringing voltages and to act as a telephone. FXS type unit is the reciprocal unit and has ability to act as PSTN and connects to a telephone device.

MC-FXO-2 and MC-FXS-2 are standalone units with AC to DC5V 1A adapters and use WDM or bi-directional optical transceivers, Type A: 1310nmTx/1550nmRx and Type B: 1550nmTx/1310nmRx, one single-mode or multi-mode fiber and SC connector. So MC-FXO-2 and MC-FXS-2 need to be used in pair.

MC-FXO/FXS-2 series converters use advanced digital multiplexing communication solutions for clear voice and high stability. Users do not need to do any settings or adjustment. They are designed for Plug and Play features. Other transmission distance (60Km, 80Km and 100Km) converters are available at customers' special request.

Features

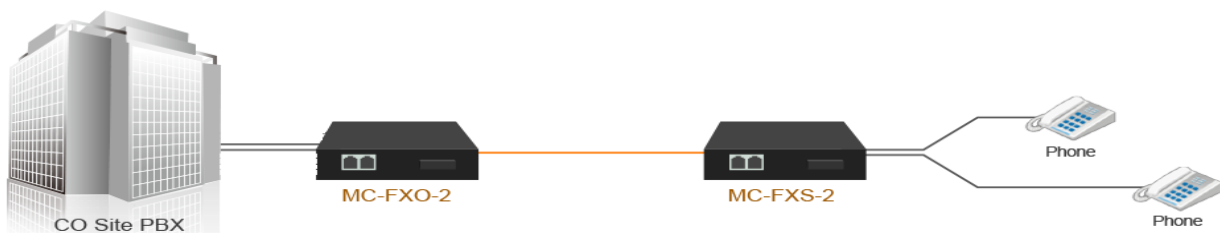
- All-digital uncompressed transmission
- Extend telephone voice transmission up to 100Km over one single-mode fiber
- Industrial grade design -30°C ~ +75°C
- Support FXO/FXS POTS phones, 2/4W audio frequency, magnet phones, etc.
- PCM Pulse Code Modulation
- Support caller ID/Fax and hot swap

Specifications

Optical Interface: Connector SFP-LC
Fiber MM 62.2/125um, SM 9/125um
Rate 155Mbps
Distance MM 550M and 2Km, SM 20Km and 40Km
Wavelength MM 850 & 1310nm, SM 1310 & 1550nm
WDM A Type 1310Tx/1550Rx
WDM B Type 1550Tx/1310Rx
Indicators: LED (Power, Fiber Link and Phone Link)
Power Input: 5VDC 1A
Power Consumption: < 2.5W
Dimensions: 190 x 120 x 28mm (W x D x H)
Weight: 450g
Operating Temperature: -30°C ~ +75°C
Humidity: 0 ~ 95% (non-condensing)
Certification: CE, FCC, RoHS compliant

Electrical Interface: Connector RJ-11
FXO Mode Impedance: 600 Ohms
Ring detection voltage: 35V
Insertion Loss: -3 ±0.75dB
Ring Frequency: 17~60Hz
Return Loss: 40dB
FXS Mode Impedance: 600 Ohms
Ring voltage: 75V
Insertion Loss: -3 ±0.75dB
Ring Frequency: 25Hz
Return Loss: 40dB
E/M Control: Support all E/M signal control methods
Frequency Characteristics: 300 ~ 3400Hz (-0.6 ~ +3dB)
Crosstalk Attenuation: > 65dB
MTBF: 100,000 Hours

Application



Ordering Information

MC-FXO-2-SC02A and MC-FXS-2-SC02B
MC-FXO-2-SC20A and MC-FXS-2-SC20B
MC-FXO-2-SC40A and MC-FXS-2-SC40B

Use one multi-mode fiber, SC and WDM transmission up to 2Km.
Use one single-mode fiber, SC and WDM transmission up to 20Km.
Use one single-mode fiber, SC and WDM transmission up to 40Km.



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