

POTS Over Fiber Converter

MC-FXO-4-SC20A

MC-FXS-4-SC20B



MC-FXO-4-SC20A and MC-FXS-4-SC20B are 4 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-4-SC20A and MC-FXS-4-SC20B is required to implement an end to end system. FXO type unit acts as a transmitter and connects to a telephone line (PSTN) or PBX station line and has ability to detect ring voltages and to act as a telephone. FXS type unit acts as a receiver and connects to a telephone set.

MC-FXO-4-SC20A and MC-FXS-4-SC20B 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, using one single-mode fiber for 20Km or using one multi-mode fiber for up to 2Km and SC connector. So they need to be used in pair.

MC-FXO/FXS-4 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 (40Km, 60Km, 80Km and 100Km) converters are available at customers' special request. Fast Ethernet Port is optional at customer's request.

Features

- All-digital uncompressed transmission
- Extend telephone voice transmission up to 100Km over one single-mode fiber, surge protection
- Protocol: IEEE802.3, IEEE802.1Q (VLAN)
- PCM Pulse Code Modulation
- Support caller ID/Fax and hot swap
- Industrial design -35°C ~ +75°C and 2-year standard warranty

Specifications

Optical Interface: Connector SC
Fiber MM 62.2/125um, SM 9/125um
Rate 155Mbps
Distance MM 2Km and SM 20Km
Wavelength MM 850 & 1310nm, SM 1310 & 1550nm
WDM A Type 1310Tx/1550Rx
WDM B Type 1550Tx/1310Rx

Indicators: LED (Power and Fiber Link)
Power Input: AC90-260V to 5VDC 2A
Power Consumption: < 10W
Dimensions: 120 x 115 x 28mm (W x D x H)
Weight: 280g
Operating Temperature: -35°C ~ +75°C
Humidity: 0 ~ 95% (non-condensing)
Certification: CE, FCC, RoHS compliant

Electrical Interface: Connector RJ-11

FXO Mode Impedance: 600 Ohms
Ring Voltage: 35V – 150V
Insertion Loss: -3 ±0.75dB
Ring Frequency: 17~60Hz
Return Loss: 20dB

FXS Mode Impedance: 600 Ohms
Ring Voltage Peak: 110V - 150V
Insertion Loss: -3 ±0.75dB
Ring Frequency: 22 - 28Hz
Return Loss: 20dB

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-4-SC20A and MC-FXS-4-SC20B Use one single-mode fiber, SC and WDM transmission up to 20Km and MM 2Km.



Megatel Industries Corporation

664 Wagner Court
North Wales, PA 19454, USA
TEL : 1-610-239-8812 FAX : 1-215-699-3348
sales@megatelindustries.com www.megatelindustries.com