

# POTS Over Fiber Converter

## MC-FXO-16-SC20A

## MC-FXS-16-SC20B



MC-FXO-16-SC20A and MC-FXS-16-SC20B are 16 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-16-SC20A and MC-FXS-16-SC20B is required to build a point to point application system. FXO type unit acts as a transmitter and connects with an analog 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 with a telephone set or a fax machine.

MC-FXO-16-SC20A and MC-FXS-16-SC20B are standalone units with AC to DC5V 5A 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-16 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 available for your PC, IP camera or other network applications. Two year standard warranty.

### Features

- PCM pulse coded voice 64Kbps per channel
- Protocol: IEEE802.3, IEEE802.1Q (VLAN)
- Weighted noise: < 63.7dBmop
- Extend telephone voice transmission up to 100Km over one single-mode fiber and surge protection
- Support caller ID/Fax and hot swap

### Specifications

**Optical Interface:** Connector SC  
 Fiber MM 62.2/125um, SM 9/125um  
 Rate 1.25Gbps  
 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 5A  
**Power Consumption:** < 10W  
**Dimensions:** 485 x 135 x 40mm (W x D x H)  
**NET Weight:** 1.5Kg  
**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 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  
 Feed Current: 20 ~ 50mA  
**Frequency Characteristics:** 300 ~ 3400Hz (-0.6 ~ +3dB)  
**Crosstalk Attenuation:** > 65dB  
**MTBF:** 100,000 Hours

### Application



### 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 MM fiber for 2Km.



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