

OM-102P

Fiber Optic Ethernet Media Converter
100BASE-TX to 100BASE-FX
With Power over Ethernet

Applications

- IP telephones
- Noisy RFI environments - factory floor
- 100 Mbps communication systems
- Secure data environments



Description

The OM-102P media converter has one optical and one electrical port. It connects to any 100BASE-TX Ethernet port. This allows the attached devices to connect to a 100BASE-FX fiber optic Local Area Network over a pair of optical fibers. The OM-102P can supply 48 Volts to attached equipment for PoE applications. Two OM-102Ps can be connected back-to-back to interconnect networks. The OM-102P is available with ST, SC, or LC connectors and for singlemode or multimode fiber. Auto-negotiation provides plug-and-play operation; alternately the copper port can be configured with switches to force duplex and cross-over. A serial port allows performance and configuration monitoring.

Features:

- Supports Jumbo packets
- Supplies power for PoE applications
- 100BaseTX 802.3u compatible
- No external power supply
- 5 Year warranty
- Singlemode or multimode fiber option
- Heavily shielded case
- Traffic statistics monitor port
- Auto or manual configuration
- Wide temperature range (-40°C to 75°C)

Specifications

Optical

Light source	1300 nm LED	MM version
	1300 nm LASER	SM version
Optical output (62/125 fiber)	-18 dBm min	MM version
Optical output (9125 fiber)	-19 dBm min	SM version
Operating distance - multimode fiber	5 Km typical	
- singlemode fiber	>20 Km typical	
Optical sensitivity (10 ⁻¹⁰ BER)	-32.5 dBm	
Optical connectors	SC, ST or LC	

Electrical

Data & PoE standards	IEEE 802.3u and 802.3af
Data I/O connector	RJ-45
Power supply (internal)	100-240V, 50-60Hz
Power consumption (excluding powered device load)	< 3 W
Attached device power consumption	13.5 W max

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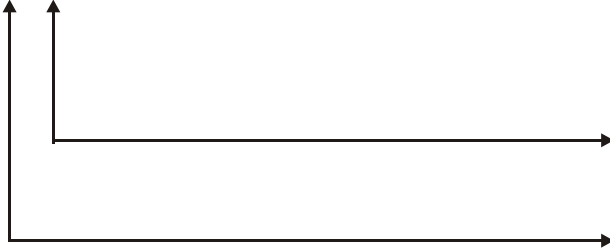
Specifications (continued)

General

Operating temperature	-40°C to 75°C
Humidity (RH)	10% to 95%
MTBF	> 50,000 hours
Dimensions	25 * 110 *170 mm

Part Numbers

OM102P - XX-XX



- ST = ST optical connector
- SC = SC optical connector
- LC = LC optical connector
- MM = 1300 multimode optics
- SM = 1300 singlemode optics