

# OM-102

Fiber Optic Ethernet Media Converter  
10/100 BASE-TX to 100BASE-FX  
With Power Over Ethernet

### Applications

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



### Description

The OM-102 media converter has one optical and two electrical ports. It connects to any 10BASE-T or 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-102 can supply 48 Volts to attached equipment for POE applications. Two OM-102s can be connected back-to-

back to interconnect networks. The OM-102 is available with ST or SC connectors and for singlemode or multi-mode fiber. Auto-negotiation provides plug-and-play operation; alternately the copper ports can be configured with switches to force duplex, speed, and cross-over. A serial port allows performance and configuration monitoring.

### Features:

- Two electrical ports
- Supplies power for POE applications
- 10/100 Base-TX 802.3u compatible
- No external power supply
- 5 Year warranty
- Single or multi-mode fiber option
- Heavily shielded case
- Traffic statistics monitor port
- Auto or manual configuration
- Extended temperature range

### Specifications

#### Optical

|   |  |
|---|--|
| Light source .....                                | 1300 nm LED MM version<br>1300 nm LASER SM version |
| Optical output (62/125 fiber) .....               | -18 dBm min MM version                             |
| Optical output (9/125 fiber) .....                | -19 dBm min SM version                             |
| Operating distance - multimode fiber .....        | 5 Km typical                                       |
| - singlemode fiber.....                           | >20 Km typical                                     |
| Optical sensitivity (10 <sup>-10</sup> BER) ..... | -32.5 dBm  |
| Optical connectors .....                          | SC or ST   |

#### 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                   |
| Powered device power consumption .....                  | 13.5 W / port max       |

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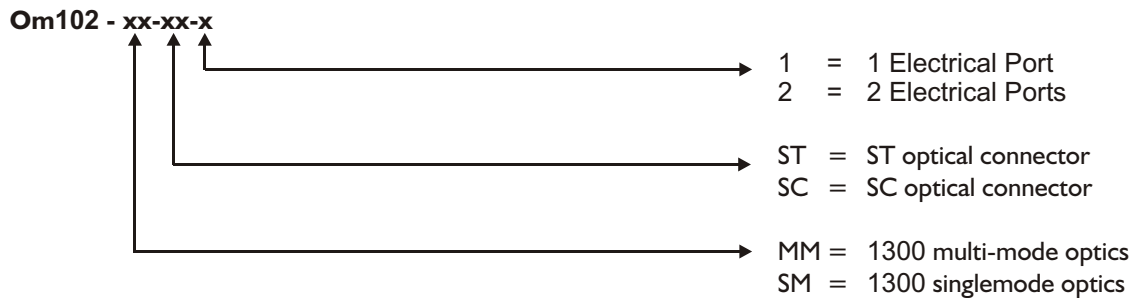
## Specifications (continued)

### General

|                        |                   |
|------------------------|-------------------|
| Operating temperature* | -20°C to +60°C    |
| Humidity (RH)          | 10% to 95%        |
| MTBF                   | > 50,000 hours    |
| Dimensions             | 25 x 110 x 170 mm |

\* Call for extended temperature range option.

## Part Numbers



10/06/12