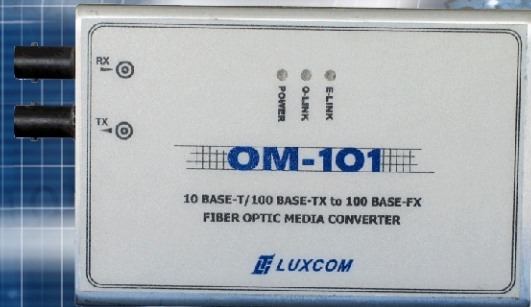


# OM 101

Fiber Optic Ethernet Media Converter  
10BASE-T / 100BASE-TX to 100BASE-FX

## Applications

- Secure data environments
- Noisy RFI environments - factory floor
- 10 or 100 Mbps communication systems
- Can be used to implement a low cost Fiber Optic hub



## Description

The OM101 media converter connects to any 10BASE-T or 100BASE-TX Ethernet port. This allows the attached device to connect to a 100BASE-FX fiber optic Local Area Network over a pair of optical fibers. Two OM101's can be connected back-to-back to interconnect networks. The OM101 comes with singlemode or multimode ST or SC connectors. Auto-negotiation provides plug-and-play operation; alternately the copper ports can be configured with switches to force duplex, speed, and cross-over. A low cost fiber optic hub can be implemented by connecting an OM101 to each port of an inexpensive electrical hub. A version of the OM101 comes with Link Pass Thru which causes a link failure on the electrical/optical side to be transferred to the optical/electrical side - this allows the attached equipment to be aware of communication failure.

## Features

- 802.3u compatible
- Three LED status indicators
- Full duplex operation
- Auto negotiation
- Full Manual override
- Selectable Link Pass Through (optional)
- Singlemode or multimode fiber option
- ST or SC connector option

## Specifications

### Optical

OM101 version	Sensitivity 10 <sup>-10</sup> BER dBm	Light source	Fiber size micron	Optical output dBm	Distance typical km
MM	-32.5	1310 LED	50/125	-23	2
MM	-32.5	1310 LED	62/125	-19	2
SM	-32.5	1310 Laser	9/125	-15	15
SME	-35	1310 Laser	9/125	-5	60
BU	-32.5	1310 Laser	9/125	-14	20
BD	-32.5	1550 Laser	9/125	-14	20

Optical connectors .....SC or ST

### Electrical

Data I/O levels .....IEEE 802.3u compatible  
 Data I/O connector .....RJ-45  
 Power source (supplied) .....5 VDC power cube  
 Supply voltage .....4.8-5.2 VDC  
 Power consumption .....2.5 Watts

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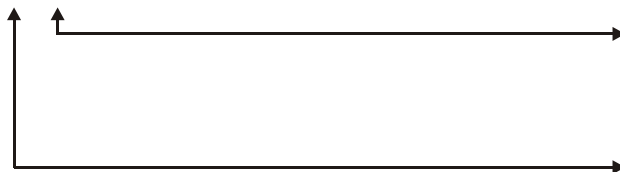
## Specifications (continued)

### General

Operating temperature.....	-40°C to 75°C
Humidity (RH) .....	10% to 95%
MTBF .....	> 50,000 hours
Dimensions .....	6.5 x 1.8 x 10 cm

## Part Numbers

OM101 - XX-YY



- ST = ST optical connector
- SC = SC optical connector
  
- MM = 1300 multimode optics
- SM = 1300 singlemode optics
- SME= 1310 nm singlemode optics  
extended distance optics
- BU = 100BASE-BX 1310 nm TX  
single-fiber bidirectional optics<sup>†</sup>
- BD = 100BASE-BX 1550 nm TX  
single-fiber bidirectional optics<sup>†</sup>

<sup>†</sup>The BU and BD versions must be paired together

- LTIPS-5-2U** .....Extra power cube (100-240 V AC, 50-60 Hz input, 5 V DC output)
- MP5** .....Mounting rack (1U holds 6 OM101s, includes brackets and hardware)
- MP5P** .....Powered Mounting rack (MP5 rack, a wiring harness, and power supply)
- MC-OM101** .....Mounting clip (for attaching an OM101 to a flat surface)
- SP-5**.....Mounting plate (for bolting an OM101 to a flat surface)
- HA3** .....Power supply harness(Allows 3 OM101s to be powered from one LTIPS-5-2-U)

More information on these accessories can be found at [www.luxcom.com](http://www.luxcom.com).