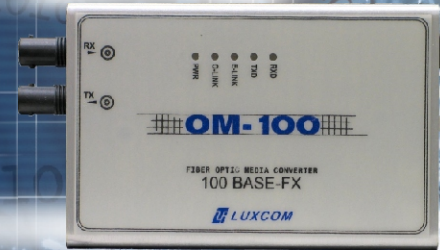


OM-100

Fiber Optic Ethernet Transceiver
100BASE TX to 100BASE-FX

Applications

- Secure data environments
- Noisy RFI environments - factory floor
- Higher speed data communications (100 Mbps)
- Can be used to implement a low cost Fiber Optic hub



Description

The OM-100 transceiver attaches to any IEEE 802.3u Ethernet 100BASE-TX card on a computer. This allows the computer to connect to a 100BASE-FX fiber optic Local Area Network over a pair of optical fibers. Two OM-100s can also be connected back-to-back for a dedicated link. A switch flips the TX RX pairs which eliminates the need for crossover cables. The OM-100 is available with ST or SC connectors for singlemode or multimode fiber. A low cost fiber optic hub can be implemented by connecting an OM-100 to each port of an inexpensive electrical hub.

Features:

- | | |
|----------------------------|--|
| 802.3u compatible | Single fiber option |
| Five LED status indicators | Singlemode or multimode fiber option |
| Full duplex operation | ST or SC connector option |
| Switch selects crossover | 5 year warranty |
| Very low latency | Wide temperature range (-40°C to 75°C) |

Specifications

Optical

Light source	1300 nm LED M version (standard)
	1300 nm LASER SM version (optional)
Optical output (62.5/125 fiber) M, MM version	-19 dBm min.
Optical output (9/125 fiber) SM version	-18 dBm min.
Optical sensitivity (10 ⁻¹⁰ BER)	-32.5 dBm
Optical connectors	SC or ST

Electrical

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

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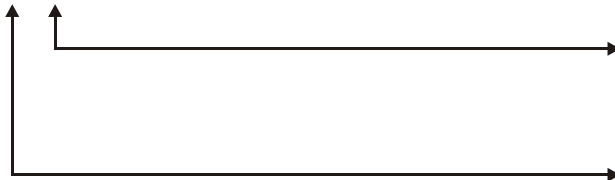
Specifications (continued)

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

OM100 - XX-YY



ST = ST optical connector

SC = SC optical connector

MM = 1300 multimode optics

SM = 1300 singlemode optics

LTIPS-5-2U

Extra power cube

(100-240 VAC, 50-60 Hz input, 5 VDC output)

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