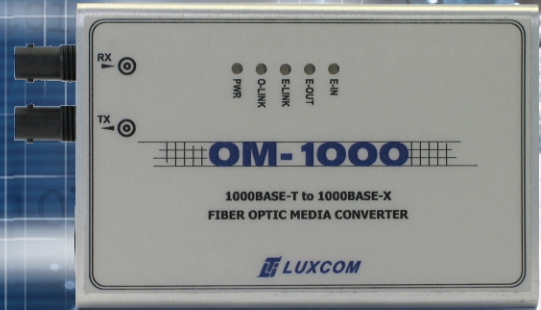


OM1000

Fiber Optic Ethernet Media Converter
1000BASE-T to 1000BASE-X

Applications

- Secure data environments
- Noisy RFI environments - factory floor
- 1000 Mbps communication systems
- Can be used to implement a low cost Fiber Optic hub



Description

The OM1000 transceiver attaches to any IEEE 802.3ab Ethernet 1000BASE-T port on a computer or switch allowing it to connect to a 1000BASE-X fiber optic port. The signals are transmitted by the transceiver over a pair of optical fibers. Two OM1000s can be optically connected together in order to interconnect widely separated networks.

Features

- Shielded RJ45 802.3ab, 802.3z compatible twisted pair port
- 5 year warranty
- Auto negotiation and crossover
- Link Pass Through support
- Singlemode or multimode fiber option
- Single bidirectional fiber option
- ST or SC connector option
- Supports jumbo packets
- Wide temperature range (-40°C to 75°C)

Specifications*

Optical

Model	Light Source	Fiber Size	Optical Output Minimum	Optical Sensitivity ¹ Maximum	Optical Range ²	Connectors
SX	850 nm laser	50/125 μm	-9 dBm	-18 dBm	550 m	SC or ST
SX	850 nm laser	62.5/125 μm	-9 dBm	-18 dBm	275 m	SC or ST
LX	1310 nm laser	50/125 μm	-9 dBm	-20 dBm	1 km	SC or ST
LX	1310 nm laser	62.5/125 μm	-9 dBm	-20 dBm	1 km	SC or ST
LX	1310 nm laser	9/125 μm	-9 dBm	-20 dBm	10 km	SC or ST
LXE	1310 nm laser	9/125 μm	-3 dBm	-23 dBm	40 km	SC or ST
BU	1310 nm TX laser	9/125 μm	-9 dBm	-20 dBm	20 km	SC or ST
BD	1550 nm TX laser	9/125 μm	-9 dBm	-20 dBm	20 km	SC or ST
S80 ³	1550 nm laser	9/125 μm	0 dBm	-23 dBm	80 km	SC or ST
S100 ³	1550 nm laser	9/125 μm	0 dBm	-32 dBm	100 km	SC

OM1000

Fiber Optic Ethernet Media Converter
1000BASE-T to 1000BASE-X



Specifications (continued)

Electrical

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

General

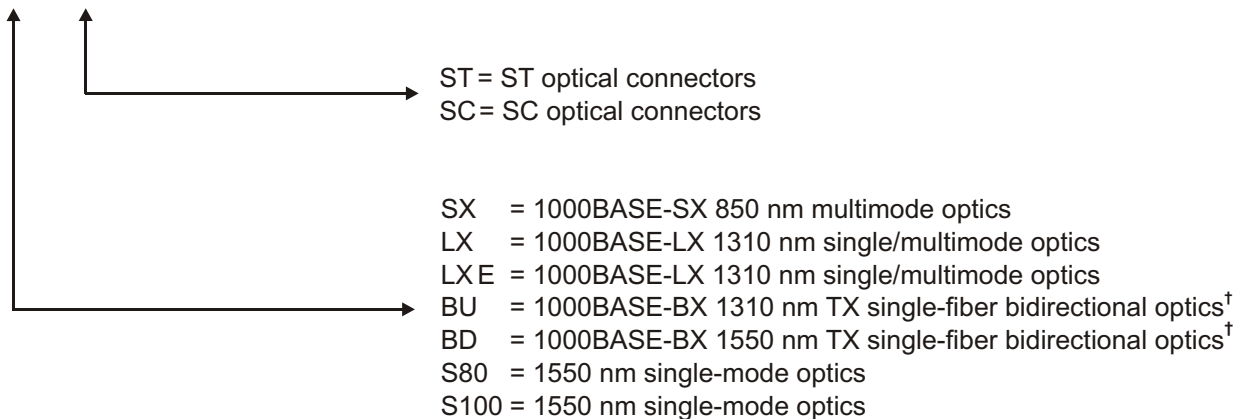
Operating temperature	-40°C to 75°C
Humidity (RH)	10% to 95%
MTBF	> 50,000 hours
Dimensions	6.5 x 1.8 x 10 cm

Notes:

- * Specifications are subject to change without notice.
- ¹ Optical sensitivity measured at 10⁻¹⁰ BER.
- ² The optical range values are for typical fiber.
- ³ Operating temperature range is 0°C to 70°C.

Part Numbers

OM1000 - XX - XX



[†] The single-fiber models must be used in upstream/downstream pairs (one BU and one BD).

Accessories for the OM1000 can be found at www.Luxcom.com

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