

# OM1004

Four Port Fiber Optic Ethernet Switch  
 Three 1000BASE-X optical ports  
 One 10/100/1000BASE-T port  
 With Rapid Spanning Tree

## Applications

- Secure data environments
- Noisy RFI environments - factory floor
- Installations which require redundant links



## Description

The OM1004 ethernet switch has three 1000BASE-X optical ports and one 10/100/1000BASE-T electrical port. Rapid Spanning Tree allows redundant connections between nodes. Eight dip switches allow manual configuration, while a serial console port provides for more sophisticated configuration. A variety of optics are available for multimode, singlemode and single fiber applications. The power supply is built in. The OM1004 is enclosed in a rugged aluminum case for low radiated and conducted emissions. It does not support jumbo packets.

## Features

- Rapid Spanning Tree algorithm allows redundant links
- One 10/100/1000BASE-T electrical port
- Three 1000BASE-X optical ports
- Plug and play operation
- A serial console port allows sophisticated configuration
- SC or ST optical connectors
- Single bidirectional fiber option
- Wide temperature range from -10°C to 70°C
- Extended distance option up to 100 km
- 5 Year warranty

## Specifications\*

### Optical

Model	Light Source	Fiber Size	Optical Output Minimum	Optical Sensitivity <sup>1</sup> Maximum	Optical Range <sup>2</sup>	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 <sup>3</sup>	1550 nm laser	9/125 µm	0 dBm	-23 dBm	80 km	SC or ST
S100 <sup>3</sup>	1550 nm laser	9/125 µm	0 dBm	-32 dBm	100 km	SC

# OM1004

Fiber Optic Ethernet Switch  
10/100/1000BASE-T and 1000BASE-X



## Specifications (continued)

### Electrical

Data I/O levels .....	IEEE 802.3 compatible
Data I/O connector .....	RJ-45
Internal AC adapter (5V output) .....	100-240V ~ 1.0A, 50-60Hz
External 5 VDC power supply (supplied) .....	<0.9A, 4.8-5.2 VDC
Power consumption (internal AC adapter) .....	< 6 Watts

### General

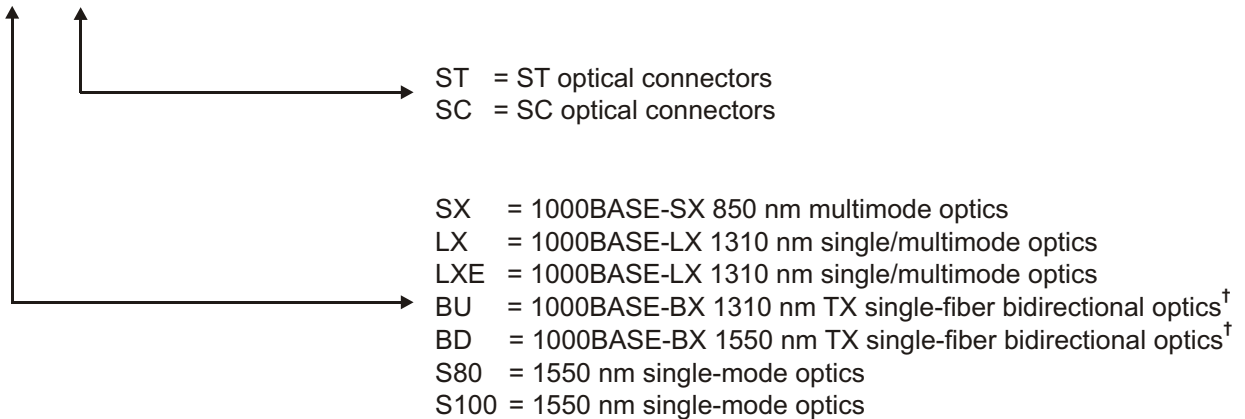
Operating temperature .....	-10°C to 70°C
Humidity (RH) .....	10% to 95%
MTBF .....	> 50,000 hours
Dimensions .....	6.5 x 1.8 x 10 cm

#### Notes:

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

## Part Numbers

### OM1004 - XX - XX



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

Mounting accessories for the OM1004 can be found at [www.Luxcom.com](http://www.Luxcom.com)

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