

OM1001-AUI

Fiber Optic Ethernet Media Converter
10BASE-AUI (MAU) to 1000BASE-X

Applications

- Secure data environments
- Noisy RFI environments - factory floor
- Connection of legacy 10 Mbps devices



Description

The OM1001-AUI media converter connects a 10BASE-AUI (DTE) device to 1000BASE-X device. This allows a legacy 10 Mbps device to connect to a 1000 Mbps LAN switch over a pair of optical fibers. The AUI port operates at 10 Mbps half-duplex. The

1000BASE-X port operates at 1000 Mbps full-duplex. The OM1001-AUI is available with ST or SC connectors. Optics are available for singlemode, multimode and single fiber applications.

Features:

- 802.3 MAU compatible
- 1000BASE-SX/LX/LX10/BX10 compatible optics
- 802.3 and 802.3z compatible
- Five LED status indicators
- ST or SC connector option
- Single bidirectional fiber option
- Extended temperature (-40 to +85 °C) option
- Extended distance (40 km) option

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
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

¹ Optical sensitivity measured at 10^{-10} BER.

² The optical range values are for typical fiber.

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Specifications (continued)

Electrical

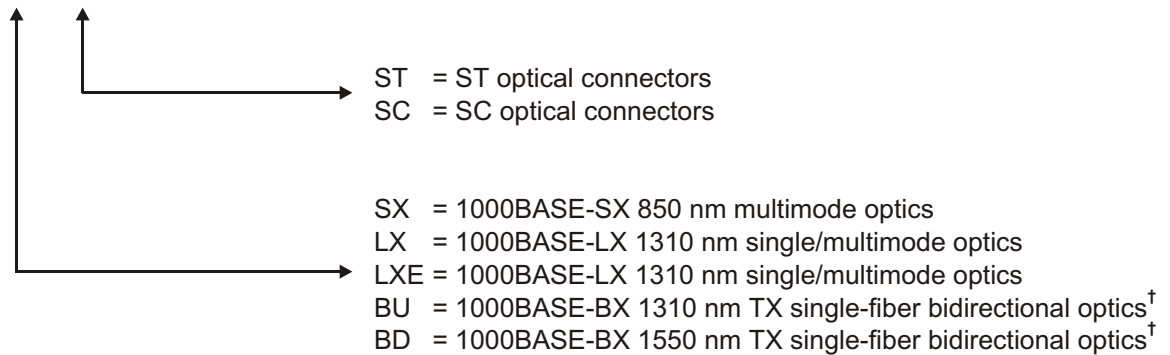
Data I/O levels	IEEE 802.3 MAU compatible
Data I/O connector	DB-15M
Power consumption	2.6 Watts

General

Operating temperature	0 °C to +50 °C
Humidity (RH)	10% to 95%
MTBF	> 50,000 hours
Dimensions	6.5 x 1.8 x 10 cm

Part Numbers

OM1001-AUI - XX - XX*



* Call for extended temperature configurations.

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

Accessories for the OM1001-AUI can be found at www.Luxcom.com

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