

OMT- 8B

Fiber Optic Ethernet 10 BaseT Transceiver

Applications

- Secure data environments
- Noisy RFI environments - factory floor
- Extended distance communications
- Can be used to implement a low cost Fiber Optic hub



Description

Most workstations provide an Ethernet twisted pair (TP) port for network connection. The OMT-8B fiber optic transceiver provides a low cost interface between the computer's Ethernet twisted pair port (TP) and an IEEE 802.3-FL fiber optic network. ST optical connectors are

standard; SC connectors are optional. The modem is low in power consumption, and it offers full duplex operation over single or multi-mode fiber.

A low cost fiber optic hub can be implemented by connecting an OMT-8B to each port of an inexpensive electrical hub.

Features:

- Multi-mode fiber version is standard; singlemode is optional
- ST Optics are standard; SC are optional
- Compact unit with full duplex operation
- 802.3 - FL compatible
- Automatic TP polarity reversal correction
- Power indicator
- Optical link indicator
- Transmit data indicator
- Receive data indicator
- Twisted pair link integrity indicator

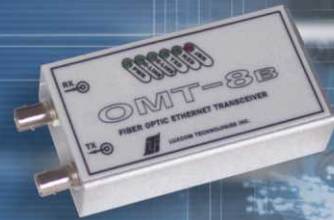
Specifications

Optical

Light source	850 nm SLED M version
	1300 nm SLED MM version
	1300 nm ELED SM version
Optical connectors	ST or SC
Optical sensitivity.....	-32.5 dBm (10-9 BER)
Operating distance	
M version -18dBm launch, 62.5/125 fiber, 3 dB loss/Km	4 Km
MM version -18dBm launch, 62.5/125 fiber, .8 dB loss/Km	18 Km
SM version -16dBm launch, 9/125 fiber, .4 dB loss/Km	40 Km

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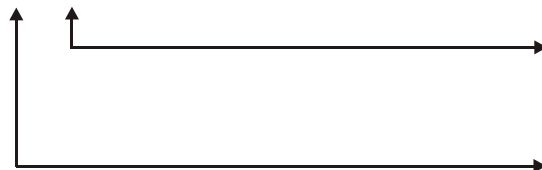
Specifications (continued)

Electrical

Data I/O levels	IEEE 802.3 10 Base-T
Data connector	RJ45
Power source	117V to 6V DC power cube LTIPS-6, supplied
Supply voltage range	5.5V to 8V DC

Part Numbers

OMT 8B - XX - YY



ST for ST optical connector (standard)
SC for SC optical connector

M for 850 multi-mode optics (standard)
MM for 1300 multi-mode optics
SM for 1300 singlemode optics

Accessories

MC8T	mounting clip, used to surface mount one OMT-8B
MP-OMT8B	1RU high 19" rack mount panel for 6 transceivers
MP-OMT8BP	rack mount panel as noted above, plus harness & power supply
LTIPS-6	extra power cube