

OM-100SF

Single Fiber Ethernet Transceiver

Applications

- Secure data environments
- Noisy RFI Environments - factory floor
- Extended distance communications



Description

The OM-100SF single fiber, single mode transceiver attaches to any IEEE 802.3u Ethernet 100BASE-TX card on a computer allowing the computer to connect to a 100BASE fiber optic Local Area Network. The signals are transmitted

by the transceiver over a single strand of optical fiber. The units are especially useful for long distance transmission of signals. The transceivers must be used in pairs, an A with a B version, or a C with a D version.

Features:

- Compact
- 802.3u compatible
- Five LED status indicators.
- Full duplex operation
- Switch selects crossover
- Single mode operation
- Single fiber operation
- ST, FC or SC connector option
- Extended Temperature option
- Powered from an external power cube.

Specifications

Optical	
Light source	1310/1550 nm LASER, single mode 1300 nm ELED SM singlemode fiber 1550 nm ELED SM singlemode fiber
Optical connectors A and B version.....	ST, SC or FC
Optical connectors C and D version.....	SC
Optical Sensitivity.....	> -34 dBm (10 ⁻⁹ BER)
Optical Output (9/125 fiber)	-14 dBm min.
M version -18dBm launch, 62.5/125 fiber, 3 dB loss/Km	4 Km
M 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
OM100SF-A and OM100SF-B	0 - 15 Km
OM100SF-C and OM100SF-D	0 - 20 Km or 0 - 50 Km

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Specifications

ELECTRICAL

Data Rate.....	100Mbps IEEE 802.3 compatible
Data I/O connector	RJ-45
Power source	5VDC power cube (supplied)
Supply voltage range.....	4.8 V to 5.2 V DC
Input Current	0.45 Amps

GENERAL

Operating temperature.....	0°C to 50°C
Humidity (RH)	10% to 95%
MTBF	>50,000hrs.
Dimensions A and B version (H*W*D)	6.5 * 1.8 * 15 cm
Dimensions C and D version (H*W*D)	6.5 * 1.8 * 10 cm

*Specifications subject to change without notice

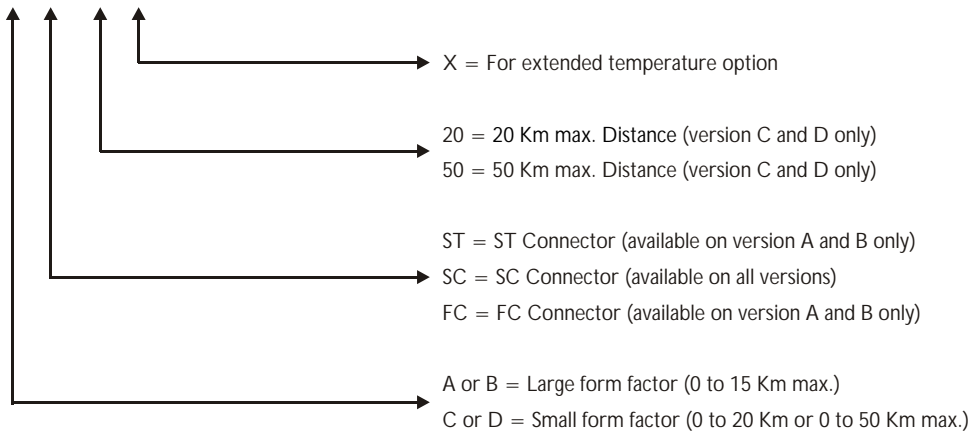
Accessories

The MC-OM100 plastic mounting clip holds one OM-100SF. The modem clips into the bracket and may be installed or removed without the use of tools. The mounting clip may be attached to any surface using double sided adhesive tape, or screws.



Part Numbers

OM-100SF-X-XX-XX-Z



MC-OM100
LTIPS-5-2-U

Mounting clip
Power Cube (Supplied with Transceiver)

15/09/04