

MCA-1000

1G media converter

Description:

The **MCA-1000** series are small size Gigabit Ethernet - Fiber converters designed to be media interfaces between 10/100/1000Base-T Ethernet copper pairs cable and 1000Base-X fiber optics cable. They feature a RJ-45 connector, and a pair of fiber optic connectors. The Gigabit Fiber Converters give you the freedom to extend your 10/100/1000 Mbps cabling distance by allowing connectivity 2 kilometers for multimode optical fiber and 20 kilometers using single mode optical fiber. LED indicators signal the Ethernet port and the FX port activity.



MCA-1000

Features:

- 1000BASE-X Fiber to 10/100/1000BASE-T UTP Converter
- Single mode and multimode application
- LED signalization
- IEEE 802.3af compliant PoE-PD
- Jumbo frame 16K support
- Auto-Cross over for MDI/MDIX in TP port
- Support Link Fault Pass Through (LFPT) Function
- Supports multiple power options

Specification:

Standards	IEEE 802.3 10Base-T, 802.3u 100Base-TX, 802.3ab 1000Base-T 802.3z 1000Base-X
Packet length	Jumbo frame 16K support
Fiber Cable	Multimode: 50/125, 62.5/125 μ m Single mode: 9/125 μ m
Wavelength	1310 nm
Fiber Connector	MC-1000: duplex SC MC-1000-SFP: duplex LC
UTP Connector	RJ-45
LED Display	TPL LINK/ACT Fiber LINK/ACT
Dimensions	21 x 46 x 85 mm
Weight	320 g
DC Power Input Connector	Terminal block: 7 to 50 V DC DC jack: 5 V DC
Temperature Operation	-25 to +75 °C
Temperature Storage	-40 to +85 °C
Humidity	5 to 95% not condensing
MTBF	100 000 hrs
RoHS compliant	

Optical parameters:

MC-1000 type¹:

Wavelength	TX range	1260 – 1360 nm
	RX range	1260 – 1360 nm
Optical power	TX range	-9.5 to -3 dBm
	RX range	-3 to -20 dBm
	Link budget	10.5 dB

Note: 1) MCA-1000-SFP – optical parameters according to the SFP transceiver used

Ordering code:

MCA-1000 1310 nm, 10 km, SC connector

MCA-1000-SFP²

Note: 2) SFP according to relevant datasheet, see www.optokon.com

Standard accessories:

- Converter
- User manual

Options:

- AC/DC adapter
- SFP transceiver