

LMC Series Media Converters

Ruggedized type

NATO supplier code:
1583G
Czech Army Technical specifications:
TP-OPT-1981-2004

Description:

The LMC series introduces the media converter housed in a robust metal box. It provides Expanded Beam connectors for your fiber optic cable and copper pairs ports for 100 Base-TX or 10/100 Base-TX cable connection in harsh environmental conditions. The LMC rugged design extends the use of Ethernet in military, aerospace, petrochemical and harsh industrial applications. It meets the demands for mobility, easy installation and the mechanical resistance necessary for tactical deployment in the field. The LMC converters give you the freedom to extend your 10/100 Mbps cabling distance by allowing connectivity up to 2 kilometers. Utilizing just one singlemode optical cable, the cabling distance of your 10/100 Base-TX network may be extended up to 120 kilometers. LED indicators show the power status of the converter, LAN port and fiber activity.

Two versions available: LMC-01 contains one media converter in metal box
LMC-02 contains two media converters in common box



LMC-01-M-HMA4-02-DC

LMC-02-M-HMA4-02-DC

Features

- Designed for interconnection of LANs in harsh environment conditions
- Fiber connectivity up to 2 km for MM up to 120 km for SM
- Expanded Beam OPTOKON HMA fiber optic connector
- Full-Duplex, Half-Duplex or Auto selectable.
- Surface finishing RAL 6014
- MIL-STD tested

Specifications

Standards	IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX
Protocol	CSMA/CD
Interface	62GB series connector, using copper wires cable HMA4 connector: 62.5/125 µm or 50/125 µm MM fiber optic cable 9/125 µm SM fiber optic cable
Wavelength	MM: 1300 nm SM: 1310 nm, 1550 nm
Maximum Segment Length	UTP cable (10Base-T, 100Base-TX): 100 m MM fiber optic cable, full duplex: 2 km, SM fiber optic cable, full duplex: 10, 30, 50, 80 or 120 km
Enviromental Temperature Humidity	According to MIL-STD 810E Operating -30 °C to +50 °C, Storage -50 °C to + 70 °C 10% to 95%
Mechanical	According to MIL-STD 810E
EMC	According to MIL-STD 461E and MIL-STD 464E
Power Supply	12 to 32 V DC, 200 mA (LMC-01), 400 mA (LMC-02)
Dimension	LMC-01: 170 x 120 x 55 mm (box) / 250 x 130 x 70 (including connectors) LMC-02: 146 x 106 x 75 mm (box) / 180 x 130 x 120 (including connectors)

Ordering Code

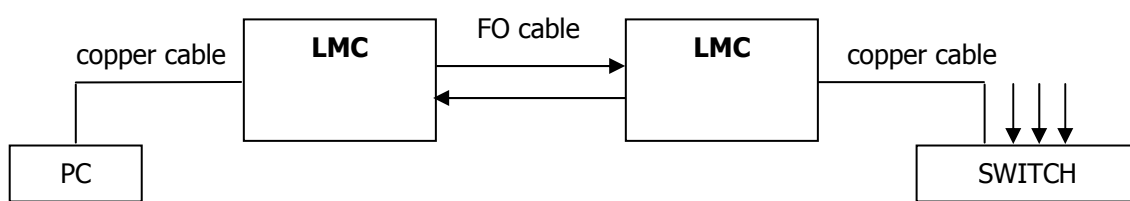
LMC-01	-	XX	-	HMA4	-	XX	-	XX
LMC-02								
		Fiber Type M: Multimode S3: SM 1310 nm S5: SM 1550 nm W3*: WDM 1310 TX W5*: WDM 1550 TX		Connector Type		Distance Connectivity 02: 2 km (MM only) 10: 10 km 30: 30 km 50: 50 km 80**: 80 km 120**: 120 km		Power Supply DC: External

*) must use couple W3-W5

**) S5 (1550 nm) only

Applications:

Schematic diagram



Typical applications:

- temporary installations
- military tactical networks
- petrochemical and heavy industry
- disaster control

