

LMC-01.BC Fast Ethernet Media Converter

Ruggedized type

NATO supplier code: 1583G

Description:

The LMC series introduces the media converter housed in a robust metal box. It provides Expanded Beam connectors for fiber optic cable and copper twisted pairs ports for harsh environmental conditions. The LMC rugged design extends the use of Ethernet in harsh environmental conditions – heavy industry, petrochemical, mines, broadcasting and other field applications. It meets the demands for mobility, easy installation and the mechanical resistance necessary for deployment in the field. The LMC converters give you the freedom to extend your 10/100/1000 Mbps cabling distance by allowing connectivity up to 2 km over MM fiber, up to 50 kilometers if use the SM fiber. LED indicators show the power status of the converter, LAN port and fiber activity.

The basic LMC-01.BC configuration includes the media converter in ruggedized box. Data transmission and power supply are ensured via the same connectors, PoE (PD – powered device) or unused wires in data cable. Optical and copper wires cables might be ordered as accessories.



LMC-01.BC-M5-HMA-02-PD

Features:

- 10/100Base-TX to 100Base-FX Converter
- Designed for interconnection of LANs in harsh environment conditions
- Fiber connectivity up to 2 km for MM, 10 km for SM
- HMA fiber optic connector
- Auto-Negotiation
- Auto MDI/MDIX
- Operation in Store and forward mode¹

Note: 1) Pass through mode on request

Specifications:

Standards	IEEE 802.3 10Base-T, 802.3u 100Base-TX IEEE 802.3u 100Base-FX
Protocol	CSMA/CD
Interface	Rugged RJ-45 port using copper twisted pair cable ² : data transmission & power supply HMA 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
Maximum Segment Length ³	UTP cable (10Base-T, 100Base-TX): 100 m MM fiber optic cable, full duplex: 2 km SM fiber optic cable, full duplex: 10 km
Environmental Temperature ⁴ Humidity	According to MIL-STD 810E Operating -30°C to +70°C, Storage -50°C to + 85°C 10% to 95%
Mechanical	According to MIL-STD 810G and ČOS 999902
EMC	EN 55022, EN 61000-6-3
Power Supply	PoE (PD – powered device)
Dimension	115 x 65 x 55 mm

Note: 2) Copper wires cable, which ensures data connection – can be delivered on request

3) Longer distance in case of SM fiber possible

4) extended operating temperature -30°C to +80°C available on request

Ordering Code:

LMC-01.BC - XX - HMA - XX - PD - (BK⁶)/(E⁴)

100M converter

Fiber Type

M5: MM 50/125 μm
M6: MM 62.5/125 μm
S3: SM 1310 nm

Connector Type⁵

Distance

02: 2 km – MM
10: 10 km – SM

Power Supply

DC: 10.5 – 36 V DC
PD: PoE powered⁷

Note: 5) HMA standard, other on request

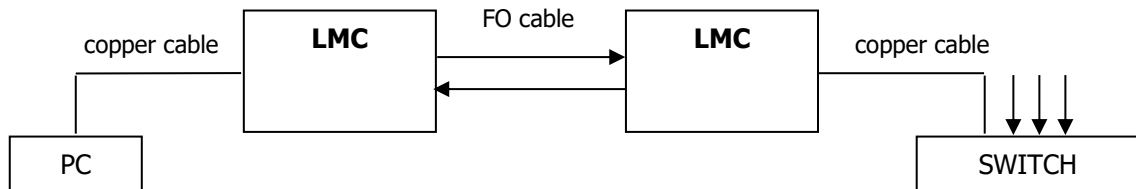
6) Standard green khaki RAL 6014 mat color

please use –BK in P/N code if black color RAL 9005 mat required, application: industry, broadcasting, ...

7) power supply: 4-5 wires +voltage, 7-8 wires -voltage

Applications:

Schematic diagram



Typical applications:

- temporary installations
- field networks
- petrochemical and heavy industry
- disaster control

Accessories:

- Documentation and User Manual

Options: Cables: data and power supply⁷:

- data cable: LANCAB-6BR-08 CAT6 RJF (bayonet) – RJ45 plug, 8 m, (alias LMSW08B-LAN-08)
- power supply cable: PSCAB3-03 3 Cu wires, shielded, 62GB connector to bare wires



DC power supply cable



LAN cable



Tactical cable with HMA-J connectors