

LMC-02.GC **Gigabit Ethernet Mini Media Converter** Ruggedized type

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 30 kilometers if use the SM fiber. LED indicators show the power status of the converter, LAN port and fiber activity.

The basic LMC-02.GC configuration includes two media converters in ruggedized box. The optical and electrical ports converters are terminated at separate connectors, HMA type for FO, rugged RJ-45 for copper LAN interface. Power supply for both is ensured via 3-pins rugged connector.



LMC-02.GC-S3-HMA-10-DC 1) LFPT Pass through mode on request

Features:

- Two 1G media converters
- Rugged design for use in harsh environments
- Small compact box
- 10/100/1000BASE-T to 1000BASE-X converter
- HMA Expanded Beam FO interface
- Auto-Cross over for MDI/MDIX in TP port
- Support Jumbo Frame 12K Bytes
- Support Link Fault Pass Through (LFPT) function¹
- 10-36 V DC power supply

Specifications:

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Standards	IEEE 802.3 10Base-T, 802.3u 100Base-TX, 802.3ab 1000BASE-T					
	802.3z 1000BASE-X					
Protocol	CSMA/CD					
Interface	Rugged RJ-45 port using copper twisted pair cable ² : data transmission					
	Rugged power supply port: 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: 1310 nm					
_	SM: 1310 nm					
Maximum Segment	UTP cable (10Base-T, 100Base-TX, 1000BASE-T): 100 m					
Length	MM fiber optic cable, full duplex: 2 km					
	SM fiber optic cable, full duplex: 10, 30 km					
Environmental	According to MIL-STD 810E					
Temperature	Operating: -25°C to +75°C, Storage -40°C to + 85°C					
Humidity	10% to 95%					
Mechanical	According to MIL-STD 810G and ČOS 999902, IP 63 protection					
EMC	According to MIL-STD 461G					
Power Supply ³	external 10 – 36 V DC; power consumption: <6 W					
	PoE – PD, powered device, IEEE 802.3af					
Dimension	LMC-02.GC: 115 x 90 x 55 mm (box) / 180 x 90 x 110 (including connectors)					
Weight	0.9 kg					

2) Copper wires cable, which ensures data connection and power supplying – can be delivered on request

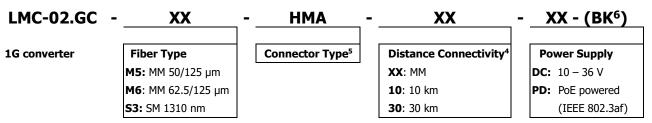
3) AC/DC power supply adaptor - can be delivered on request, please contact: sales@optokon.com



Optical transceivers parameters

Parameter		Min.	Тур.	Max	P _{OUT} (dBm)	RX sens. (dBm)	Distance (km)
Wavelength (nm)	1310	1260	1310	1360	≥ -11	≥-18	10
					≥ -8	≥-20	30

Ordering Code:

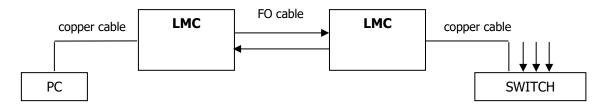


Note: 4) MM fiber - the distance depends on fiber type, up to 2 km, SM fiber - longer distance on request

- 5) HMA-J 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, ...

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 supply:

o 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