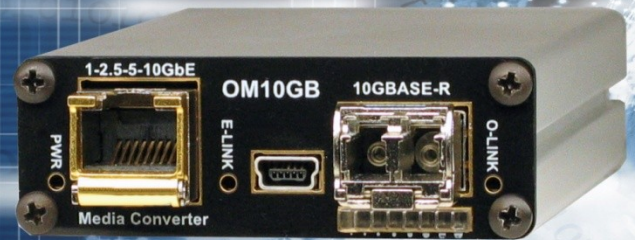


# OM10GB

## Modular Ethernet Media Converter

1000BASE-X or SGMII or 10GBASE-R Optical  
1GbE or 10GbE Copper



## Description

- Copper to optical 1GbE or 10GbE Ethernet media converter.
- Upgradable from 1GbE to 10GbE by replacement of SFP modules.
- **OM10GB-30**: Up to 30m Cat 6a or 7 cable, 1G/2.5G/5G/10GBASE-T to 10GBASE-R.
- **OM10GB-80**: Up to 80m Cat 6a or 7 cable, 10GBASE-T to 10GBASE-R, 5GBASE-T to 5GBASE-R, 2.5GBASE-T to 2.5GBASE-X, and 1GBASE-T to 1000BASE-X without auto negotiation.
- **OM10GB-100**: Up to 100m Cat 5e cable, 1000BASE-T to SGMII, 10/100/1000BASE-T to SGMII, 1000BASE-T to 1000BASE-X, and 1000BASE-T to 1000BASE-X with auto negotiation to copper.
- **OM10GB-30** uses internal buffering to provide multi-rate support with fixed 10GBASE-R optical speed.
- Optical speed follows copper speed in **OM10GB-80**.
- Optical distances up to 80 km.
- A variety of SFP and SFP+ modules are available for various distances and fiber types.
- Link-pass-through enables local detection of remote link failures.
- DIP switches set all operation modes.
- Console interface shows status. Control software can be updated through console.
- Power, E-Link, and O-Link LEDs
- Rugged metal case for low radiated and conducted emission.

## Features

- Optical strength meter
- Plug and play
- Link-Pass-Through switch.
- Rack mountable
- Jumbo packet support
- 12 to 56 VDC power input.
- 5 Year warranty

## Management Interface

The USB console displays electrical and optical status such as RX power, TX power and temperature. Its use is optional.

## Specifications

### Optical

See *SFP Ordering Guide* at <https://www.luxcom.com/product/sfp/>. Multimode, single-mode, duplex fiber, single fiber optical modules are available.

### General

Operating temperature .....	0°C to 70°C
Humidity (RH) .....	10% to 95%
MTBF .....	> 50,000 hours
Dimensions .....	10 x 6.4 x 2.2 cm

### Electrical

Data I/O levels .....	IEEE 802.3
Date rates, <b>OM10GB-30</b> .....	1/2.5/5/10GBASE-T
Date rates, <b>OM10GB-80</b> .....	1/2.5/5/10GBASE-T
Date rates, <b>OM10GB-100</b> .....	1000BASE-T and 10/100/1000BASE-T
Data cable length max. at ≤ 1G .....	100 meters
Data cable length max. at 10G, <b>OM10GB-30</b> .....	30 meters
Data cable length max. at 10G, <b>OM10GB-80</b> .....	80 meters
Power input to modem .....	12 to 56 VDC
Power input to desk top power supply (if included) .....	100-240Vac, 50-60 Hz
Power consumption typical at 10GbE .....	< 5 Watts

## Ordering Information Part numbers are:

Model Number	Description
<b>OM10GB-30</b>	30m 1/2.5/5/10GBASE-T Copper, 10GBASE-R Optical
<b>OM10GB-80</b>	80m 1/2.5/5/10GBASE-T Copper, 1/2.5GBASE-X, 5/10GBASE-R Optical
<b>OM10GB-100</b>	100m 1000BASE-T and 10/100/1000BASE-T Copper, SGMII and 1000BASE-X Optical

**SFP optic part number:** Select a 1G or 10G SFP+ from the <https://www.luxcom.com/product/sfp/>.

If the model number followed by the SFP optic part number is ordered, a 12V DC, 0°C ~ +40°C power supply, LTIPS-12-1.2-U, will be provided. If you require an industrial temperature power supply (-30°C ~ +70°C), the modem, optical SFP, and 24V or 48V power supply are separate order items.

## Accessory part numbers:

**DIN-Clip-5G** allows the modem to be snapped to a DIN rail.

**MC-OM101** mounts a modem on a flat surface.

See <https://www.luxcom.com/product/mounting-clip-mc-om101/>

**MP5** panel holds six modems in a 19" rack. Requires **OM10GB** mounting bracket. **MP-5P** must be upgraded to **MP-5P-24** with 24V power supply. All modems must be 24V compatible (e.g., **OM101E**).

See <https://www.luxcom.com/product/mounting-panel-mp5/>

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