

# OM1G-PSE

Industrial Ethernet Transceiver  
with Power over Ethernet  
1000BASE-T to 1000BASE-X  
100BASE-TX to 100BASE-X

## Applications

- IP cameras
- IP phones
- Wireless access points



## Description

- Managed Ethernet Media Converter with Power over Ethernet (PoE).
- 1000BASE-T to 1000BASE-X and 100BASE-TX to 100BASE-X.
- 10/100/1000BASE-T to SGMII.
- Provides up to 90 Watts to IEEE 802.3bt compatible devices.
- Uses standard SFP optical modules.
- LED bar graph shows received optical power.
- USB console interface.
- Compact rugged metal enclosure.

## Features

- Single or multimode fiber
- Distances up to 100 km
- PHY based for optimum data security
- Low latency
- IEEE 802.3bt PSE
- PoE and PoE+
- Plug and play operation
- Link-Pass-Through support
- Jumbo packet support
- DIP switch and console configuration
- Surge protection on RJ45
- Industrial temperature range
- 5 Year warranty

## Power over Ethernet

The PoE 802.3bt controller automatically detects and powers compatible devices. Power is limited by device classification and short circuit protection. The maximum power available is dictated by the attached power supply.

## DIP Switch Settings

Four DIP switches control the modem's transmission speed, operation mode and link-pass through. Microprocessor mode ( $\mu$ P) selects the configuration setup with the management interface.

## Management Interface

The USB interface can be used to view Ethernet, PoE, and SFP status. It can also be used to define a custom configuration for  $\mu$ P mode. There are three media converter and two SGMII modes. These modes are customizable using option menus.



## Specifications

### Optical

See 100BASE or 1000BASE optics in <https://www.luxcom.com/product/sfp/>.

### General

Operating temperature .....	-30°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 compatible
Power input.....	48V to 56V DC
Power consumption (in addition to POE load) .....	< 2.5 Watts

### PoE

IEEE 802.3bt support .....	Type 1-4
Type-1 Up to 15.4 W over 2 pair.....	Class 0-3
Type-2 Up to 30 W over 2 pair.....	Class 4
Type-3 Up to 60 W over 4 pair.....	Class 5-6
Type-4 Up to 90 W over 4 pair.....	Class 7-8

## Ordering Information

The modem, SFP, and power supply are separate order items.  
For a PoE powered device with similar functionality, consider the OM1G-PD.

### Modem part number:

**OM1G- PSE** power cube not included

### Power supply part number:

See [POE Power Supply Ordering Guide](#).

### SFP optic part number:

Choose a 100BASE or 1000BASE SFP from <https://www.luxcom.com/product/sfp/>.

## Accessory part numbers:

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

See <https://www.luxcom.com/product/mounting-clip-din-clip-5/>

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

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

**MP5** panel holds six modems in a 19" rack.

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

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