

Unmanaged Industrial Ethernet Switch

OM-ESW-105-POE



- ✓ Compact, Space Saving Package
- ✓ Full IEEE 802.3 and 802.3af Compliance
- ✓ Five 10/100BaseTX RJ-45 Ports (4 PoE Ports)
- ✓ Unmanaged Operation
- ✓ Automatic Detection of Connected PoE Devices
- ✓ Support for Full/Half Duplex Operation
- ✓ Auto-Sensing Duplex, Speed, and MDIX
- ✓ Up to 1.0 Gb/s Maximum Throughput
- ✓ Full Wire Speed Communications
- ✓ Supports 15.4 Watts Per Port (13 Watts at the PD)
- ✓ Redundant Power Inputs (46 to 49 Vdc)

The OM-ESW-105-POE unmanaged industrial Ethernet Switch is designed to transmit power, along with data, over an Ethernet network and is ideal for PoE capable devices where running an AC power feed is either not possible or cost effective. This feature allows an end user to power a PoE camera, wireless access point, or any other PoE capable device without the need for running separate wires for power. This also allows the ability for a centralized battery backup for all these devices.

Designed to meet the most demanding industrial communications requirements by providing high throughput and minimum downtime while also providing power to PoE capable devices over the Ethernet network.

The OM-ESW-105-POE provides five RJ-45 auto sensing 10/100 BaseTX ports. All ports are full/half duplex capable, using “state of the art” Ethernet switching technology. Four of the five RJ-45 ports also act as PoE ports allowing power to pass through four of the eight strands of CAT5 cable. Each PoE port supports up to 15.4 watts of power. The OM-ESW-105-POE auto-negotiates the speed and flow control capabilities of the five TX port connections, and configures itself automatically.

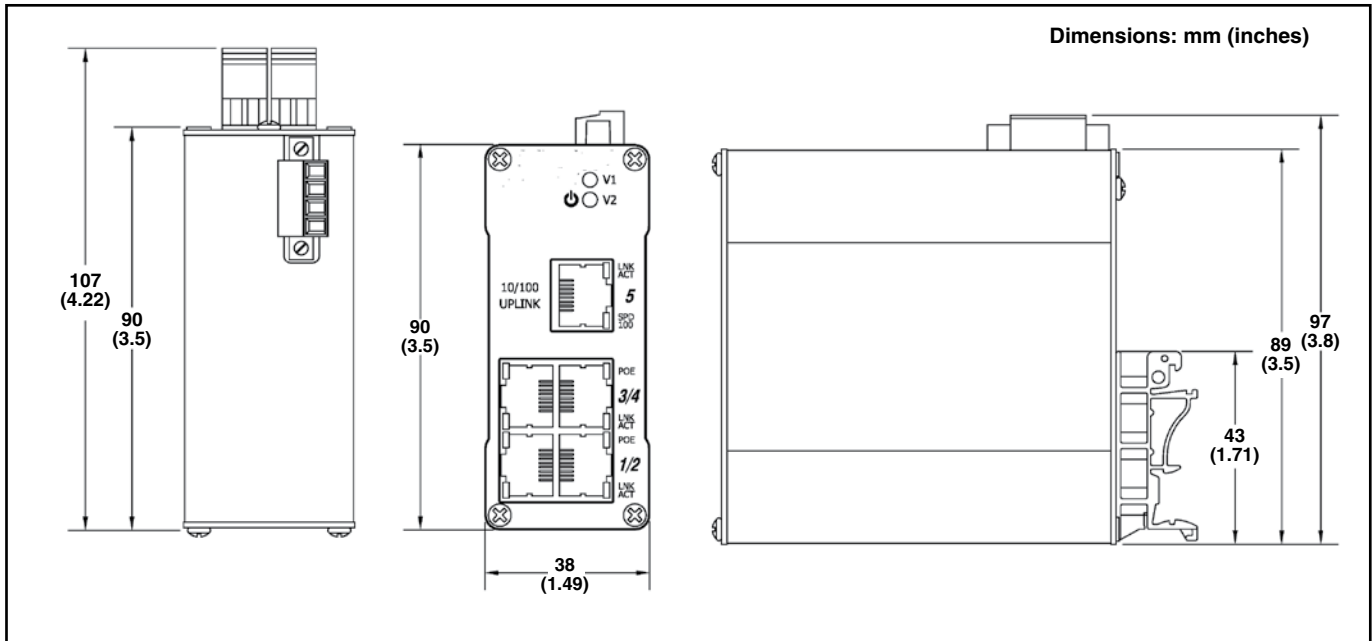


OM-ESW-105-POE shown actual size.

The OM-ESW-105-POE also supports up to 2000 MAC addresses, enabling these products to support extremely sophisticated and complex network architectures.

The OM-ESW-105-POE automatically detects any PoE device that is connected and powers it accordingly. If a PoE fault is detected on a specific port the Auto-disconnect feature disables PoE power on that port, allowing only data communications to pass. This reduces reducing the risk of damaging costly equipment. This ideal candidate provides data and power to wireless LAN access points, network cameras, VoIP, and other PoE capable devices. The product also helps reduce costs by eliminating the need for electrical wiring and electrician expenses.

The OM-ESW-105-POE has extended operating environmental specifications to meet the harsh needs of the industrial environment. For cost savings and convenience it can be DIN-rail mounted alongside Ethernet I/O or other industrial equipment. To increase reliability, this switch provides dual redundant power inputs. Two power LED's are also provided on this unit indicating a valid power source on both the redundant power inputs and also indicating when a power fault bus occurs.



Specifications

ELECTRICAL

Input Voltage: 46 to 49 Vdc

Steady Input Current Under Full Load: 1.6 A@48V

Steady Input Current with No PoE, Switch Full Load: 65mA@48V

Inrush: 26Amp/1.3ms@48V

ENVIRONMENTAL

Operating Temperature: -40 to 85°C (-40 to 185°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Operating Humidity: 10 to 95% (non condensing)

Operating Altitude: 0 to 3048 m (0 to 10,000')

RELIABILITY

MTBF: >2 million hours

NETWORK MEDIA

10BaseT: >Cat3 cable

100BaseTX: >Cat5 cable

CONNECTORS

10/100BaseTX+PoE: Four RJ-45 TX/PoE Copper Ports

10/100BaseTX: One RJ-45 TX Copper Port

RECOMMENDED WIRING CLEARANCE

Front: 5.08 cm (2")

Top: 2.54 cm (1")

Status LEDs: Link/activity, PoE, power fault

Case Dimensions: 9.7 H x 3.8 W x 9.0 cm D (3.5 x 1.5 x 3.6")

Weight: 0.3 kg (0.7 lbs)

Enclosure: Hardened metal, DIN rail mount

DIN-Rail: 35 mm

REGULATORY APPROVALS

FCC Title 47 Part 15 Class A; ICES-003- Class A

CE: EN61000-6-2,4; EN61000-4-2,3,4,5,6 EN55011

UL Listed: (US and Canada) per ANSI/ISA-12.12.01-2000, Class I, Div 2, Groups A,B,C,D,T4A;

GOST-R Certified; RoHS Compliant

Designed to comply with:

IEEE 1613 for Electric Utility Substations and NEMA TS1/TS2 for Traffic Control Equipment



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

To Order

Model No.	Description
OM-ESW-105-POE	Five port PoE ethernet switch (four 10/100Base TX ports with PoE and one 10/100Base TX uplink port)
RAIL-35-1	35 mm DIN rail, 1 m (3.3') length
RAIL-35-2	35 mm DIN rail, 2 m (6.6') length

Comes complete with operator's manual.

Ordering Example: OM-ESW-105-POE, five port PoE ethernet switch (four 10/100Base TX ports with PoE and one 10/100Base TX uplink port) and OCW-1 OMEGACARESM 1-year extended warranty (adds 1 year to standard 1-year warranty).