

## OPT-IES1034M Series Industrial Ethernet Switch (Managed)

4\*10/100Base-Tx to 2\*GE SFP

RoHS Compliant



### >>Description

OPT-IES1034M series are equipped with 4 Fast Ethernet ports and up to 2 Gigabit fiber optic ports, making them ideal for applications that demand high bandwidth, and also are one of Optone new ultralow power consumption Green Managed Ethernet managed solutions, supporting three means of administrative access: Console, Telnet and WEB.

OPT-IES1034M series adopts the OPT-Ring Ring network technology, the user can easily set Redundance Ring Network in order to increase network reliability, moreover also support a variety of network management functions, such as: 802.1Q VLAN, QOS, IGMP Static Multicast, Port Trunk, Port Mirroring, ect. They can be applied extensively in wind power, distribution network automation, subway PIS, power SCADA, wastewater treatment, metallurgy, intelligent transportation, rail transit, and many other industries.

### >>Main Features

- Support OPT-Ring Redundance Ring Network technology
- Support IEEE802.1Q VLAN setting, effective control of the broadcast domain.
- Support IEEE802.1p-QoS function.
- Support IGMP Static Multicast, Port Trunk, Port Mirroring, ect.
- Extends distances ranging from 2km (multi-mode fiber) to 120km (single mode fiber)
- Supports auto MDI/MDIX function
- Supports DIN-Rail and hang wall mounting
- Status LED for easy monitoring of device status
- Maximum frame size of 1632 bytes
- Support 8k MAC address
- Support dual power supply backup
- IP40 protection class

## >> Specifications

### Interface

- 4 x Ethernet port (RJ45) 10/100Base-Tx
- 2 x Optical port (SFP) 1000Base-Fx
- 1 x Console port (RJ45)

### Optical Port

- Available for 1310nm and 1550nm Single mode, and 850nm Multi mode
- Transfer Distance: up to 120km
- Connectors: SFP
- Fiber core: 8.3μm, 8.7μm, 9μm and 10μm on single-mode fiber; 50, 62.5 and 100μm on multi-mode fiber

### Ethernet Port

- Available speed: force 10Mbps, force 100Mbps and auto-detective 10/100Mbps Full-Duplex and Half-Duplex auto-negotiation
- Connectors: RJ-45 Connector; MDI/MDI-X connection auto-sensing

### Standard

- IEEE802.3 (10Base-T)
- IEEE802.3u (100Base-TX/FX)
- IEEE 802.3ab (1000Base-T)
- IEEE 802.3z (1000Base-SX/LX/CX/T)
- IEEE802.3x (Flow control)
- IEEE802.1Q (VLAN)
- IEEE802.1p (Class of Service)
- IEEE 802.1w(RSTP)
- SNMP v1/v2c(Simple Network Management Protocol)

### Switch Properties

- MAC Table: 8K
- Packet Buffer: 1Mbit
- Switching Delay: <5μs

### LED Indicators

- Power Status, Speed Status, FX Link/Act, TX Link/Act

### Power Requirement

- Input: 12VDC~48VDC

- Consumption: MAX 5.8W
- Reverse Connection Protection: Support
- Redundancy Protection: Support
- Dual Power: Support

### Physical Characteristics

- Housing: Metal enclosure
- Protection Class: IP40
- Dimensions: 53 x 165 x 145mm
- Weight: 0.87kg
- Installation: DIN-Rail or Panel mounting

### Environmental Limits

- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 85°C
- Operating Humidity: 10% to 95% RH (non-condensing)
- Storage Humidity: 5% to 95% RH (non-condensing)

### Agency Approvals

- FCC Part 15 of Class A & CE approved

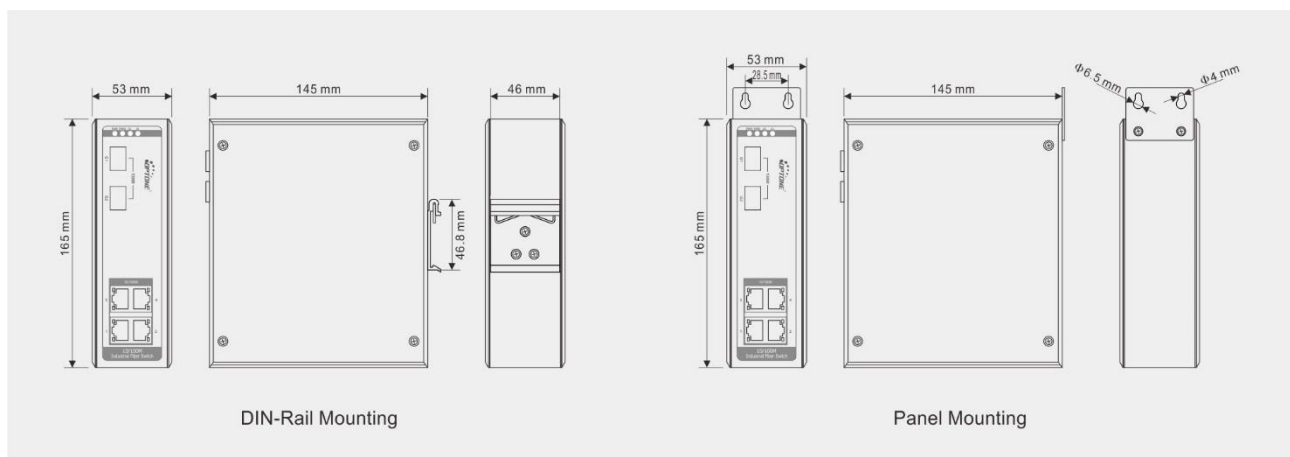
### Industrial Standard

- EMI: FCC/CE/LVD/EMC
- EMS:
  - IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)
  - IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)
  - IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV
  - IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV
  - IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
  - IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)
- Shock: IEC 60068-2-27
- Free Fall: IEC 60068-2-32
- Vibration: IEC 60068-2-6

### Warranty

- 5 years

## >> Mechanical Drawing





## >>Ordering Information

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OPT-IES1034M      4\*10/100Base-Tx to 2\*GE SFP Fiber ports, with Managed

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### Optional SFP

<i>Model</i>	<i>Rate</i>	<i>Wavelength</i>	<i>Distance</i>	<i>Connector</i>
SFP-SX-MM-0205I	1.25Gbps	850nm	0.5km	2xLC
SFP-LX-SM-0220I	1.25Gbps	1310nm	20km	2xLC
SFP-LX-SM-0240I	1.25Gbps	1310nm	40km	2xLC
SFP-ZX-SM-0280I	1.25Gbps	1550nm	80km	2xLC

## >>Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTONE before they become applicable to any particular order or contract. In accordance with the OPTONE policy of continuous improvement specifications may change without notice.

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