OPT-IES1038MP
Industrial Ethernet Switch
(Managed)

8*10/100Base-Tx(PoE) to 2*GE SFP

RoHS Compliant

CE   FC

>>Description

OPT-IES1038M series are equipped with 8 Fast Ethernet ports compliant with IEEE802.3af and IEEE802.3at 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-IES1038M 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.

- IEEE 802.3at, IEEE 802.3af PoE standard compliance

- Support PD detection and PD classification

- 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

- Support 8k MAC address

- Support dual power supply backup

- IP40 protection class

>>Specifications

Interface

- 8 x Ethernet+PoE 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, 850nm Multi mode
- Transfer Distance: up to 120km
- Connectors: SFP
- Fiber core: 9/125μm on single-mode fiber, 50/125μm and 62.5μm 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)
- IEEE802.3ab (1000Base-T)
- IEEE802.3z (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)
- IEEE802.3af (Power over Ethernet Standard)
- IEEE802.3at (Power over Ethernet Enhancements Standard)

Switch Properties

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

LED Indicators

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

PoE Specification

- Power Output: PoE 48V DC
- PoE Power Supply type: End-Span
- Power Pin Assignment: 1/2(+), 3/6(-)
- PoE Power Budget: Each port provides max 30W feed power

Power Requirement

- Input: 48VDC
- Consumption：MAX 6.6W(no PD), 246.6W(full PD)
- 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: 0.9kg
- 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)

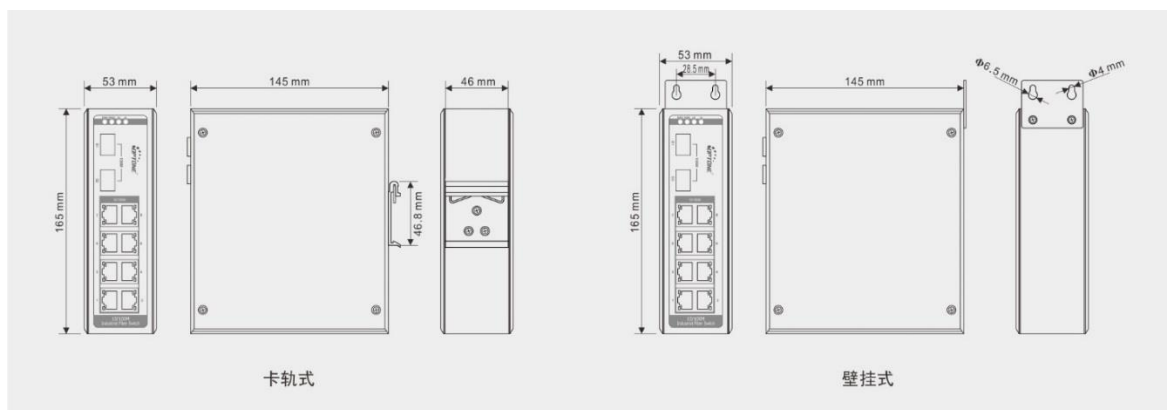## Agency Approvals

- 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

卡轨式

壁挂式

>>Ordering Information

OPT-IES1038MP	8*10/100Base-Tx(PoE) to 2*GE SFP Fiber ports, with Managed

Optional SFP

Model	Rate	Wavelength	Distance	Connector
SFP-SX-MM-0205I	1.25Gbps	850nm	0.5km	Duplex LC
SFP-LX-SM-0220I	1.25Gbps	1310nm	20km	Duplex LC
SFP-LX-SM-0240I	1.25Gbps	1310nm	40km	Duplex LC
SFP-ZX-SM-0280I	1.25Gbps	1550nm	80km	Duplex LC

>>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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