



## 8 Port 10/100/1000M Managed Industrial Ethernet Switch

OP-S4F4S-M-I



Shenzhen Optostar Optoelectronics Co., Ltd

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## Overview

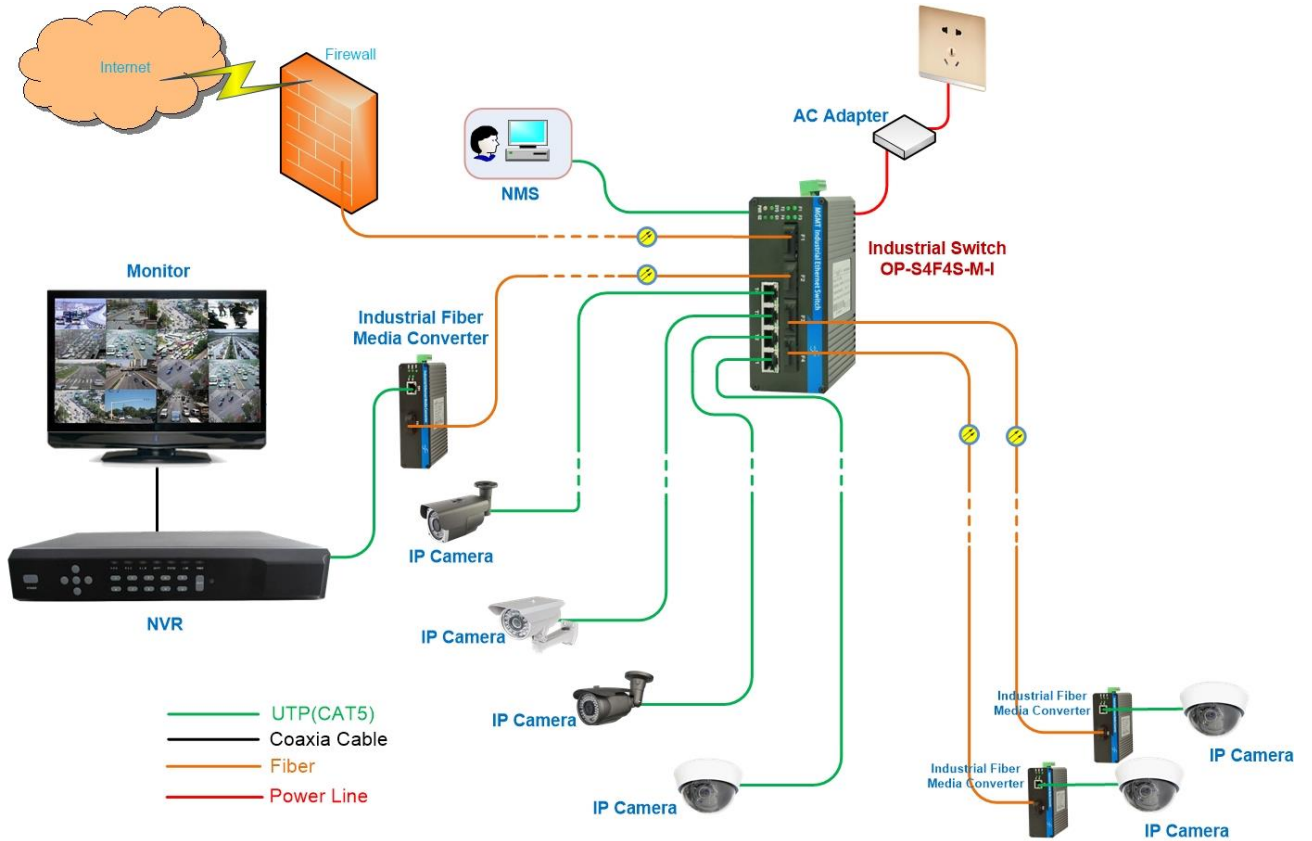
This managed industrial Ethernet switch is designed to match the critical industrial standards. With reliable and simple operation against vibration and shock, and wide operation temperature range, it could match a variety of harsh environments.

The switch complies with CE, FCC and RoHS standards, and passed the 100% burning test to ensure that it will fulfill the needs of industrial applications. It is a good choice for an economical solution for industrial Ethernet connections.

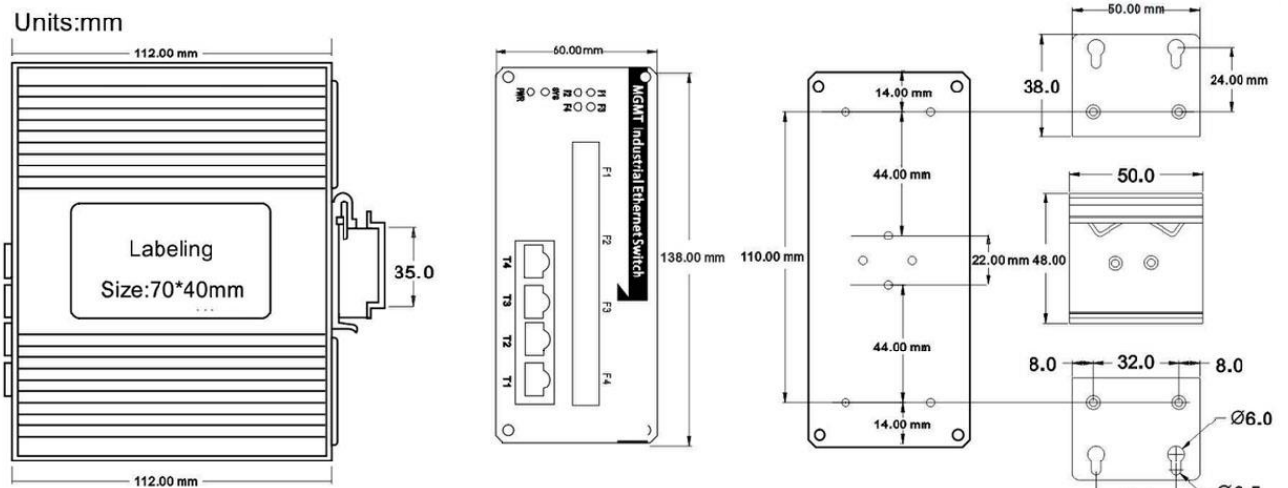
## Features

- 4\*10/100Base-T(X) ports and 4\*100Base-FX ports
- "OP-Ring" (recovery time<20ms), RSTP/STP, and MSTP for network redundancy
- SNMPv3, IEEE802.1X, HTTPS and SSH to enhance network security
- Port-based VLAN, IEEE802.1Q VLAN and GVRP to ease network planning
- DHCP Option 82 for IP address assignment with different policies
- Ethernet/IP and Modbus/TCP industrial Ethernet protocol supported
- Bandwidth management prevents unpredictable network status
- RMON for efficient network monitoring and proactive capability
- Lock port allows access by only authorized MAC addresses
- Port mirroring for online debugging
- Automatic warning by exception through email, relay output
- QoS and ToS/DiffServ for flow control and management
- IEEE 802.3ad, LACP for optimum bandwidth utilization
- Configurable by CLI for advanced management function
- -40°C-85°C operating temperature range

### Application



### Mechanical Dimensions



**Technical Indexes**

Standard	<p>IEEE 802.3 for 10BaseT          IEEE 802.3u for 100BaseT(X)          IEEE 802.3x for Flow Control          IEEE 802.1D-2004 for Spanning Tree Protocol          IEEE 802.1w for Rapid Spanning Tree Protocol          IEEE 802.1Q for VLAN Tagging          IEEE 802.1p for Class of Service          IEEE 802.1X for Authentication          IEEE 802.3ad for Port Trunk with LACP          Shock: IEC 60068-2-27          Free Fall: IEC 60068-2-32          Vibration: IEC 60068-2-6          EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A          Industry: I EC60068-2-6, I EC60068-2-27, I EC60068-2-32          Rail: EN50155, EN50121-4          Traffic: NEMA TS-2</p>
EMS	<p>EN61000-4-2 (ESD), Level 3          EN61000-4-3 (RS), Level 3          EN61000-4-4 (EFT), Level 3          EN61000-4-5 (Surge), Level 3          EN61000-4-6 (CS), Level 3          EN61000-4-16(Common-mode Conduction), Level 3</p>
Copper Port	<p>RJ45 Port: 10/100Base-T(X) auto negotiation          Full/Half duplex mode          Auto MDI-MDI-X connection          Up to 100M Cat-5 transmission distance</p>
Console Port	<p>RS-232(RJ45 connector)          Alarm Contact: 1 replay outputs, supports IP/MAC conflict</p>
Fiber Port	<p>SFP Port: 100Base-FX interface</p>
Protocol	<p>OP-Ring, IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Client, TFTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, GVRP SSH, SNMP Inform, LLDP, SNTP Server/Client, PVLAN</p>
MIB	<p>MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB</p>
Flow Control	<p>IEEE 802.3x flow control, back pressure flow control</p>
Switch Properties	<p>Priority Queues: 4          Maximum No of Available VLANs: 256          VLAN ID: 1-4094          IGMP Groups: 256          MAC Table Size: 8K          Packet Buffer Size: 1Mbit</p>
Power	<p>Input Voltage: 24V DC(18-36VDC) Redundant dual inputs          Input Current: &lt;0.5A @24VDC          Overload Current Protection: Present          Reverse Polarity Protection: Present          Redundant Protection: Present          Connection: 1 removable 6-pin terminal blocks</p>

Environmental Limits	Operating Temperature: -40°C-85°C Storage Temperature: -40°C-85°C Ambient Relative Humidity: 5%-95% (non-condensing)
Warranty	5 years
Physical Characteristics	Housing: Aluminum Alloy material with IP40 Protection Dimension: 138mm(L) X 112mm(W) X 60mm(H) Weight: 710g Installation: Din-Rail mounting, Wall mounting

### Order Information

Model	Description
<b>OP-S4F4S-M-I</b>	4*10/100Base-T(X) ports and 4*100Base-FX ports

### Package include

No	Package List
1	4*10/100Base-T(X) ports and 4*100Base-FX ports
2	Power Adapter
3	User Guide
4	Warranty Card

### Important Notice

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

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