

Introduction

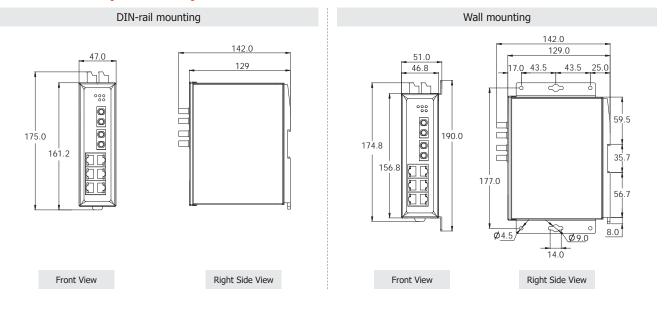
The MSM-508F series is an 8-port Industrial Ethernet Layer 2 Managed Switch with 2-Fiber Port that secures data transmission by using fiber optic transmission to provide immunity from EMI/RFI interference. It is a perfect solution for applications where transmission must be protected from electrical exposure, surges, lightning or chemical corrosion.

It can be managed through RS-232 port via serial console or Ethernet port using telnet or Web browser. In addition, the switch supports a lot of powerful managed functions, such as 802.1Q Tag-based VLAN, Port-based VLAN, 802.1p QoS (Quality of Service), Port Trunking, Spanning Tree, Cable Testing and Port Mirroring.

Built-in ICP DAS Cyber-Ring technique enables multiple switches to be placed into a redundant ring. Typically the switch detects and recovers from a fi ber or copper link failure within approximately 20 ms – for the majority of applications, it is seamless. Modbus/TCP, Modbus/RTU and OPC supported, SCADA application can monitor status of Ethernet and fiber port with Modbus or OPC protocol.

MSM-508F provides two power inputs that can be connected simultaneously to live DC power sources. If one of the power inputs fails, the other live source will act as a backup to automatically support the it's power needs. And the relay output facility can deliver warning signal while power or network link failure.

Dimensions (Units: mm)

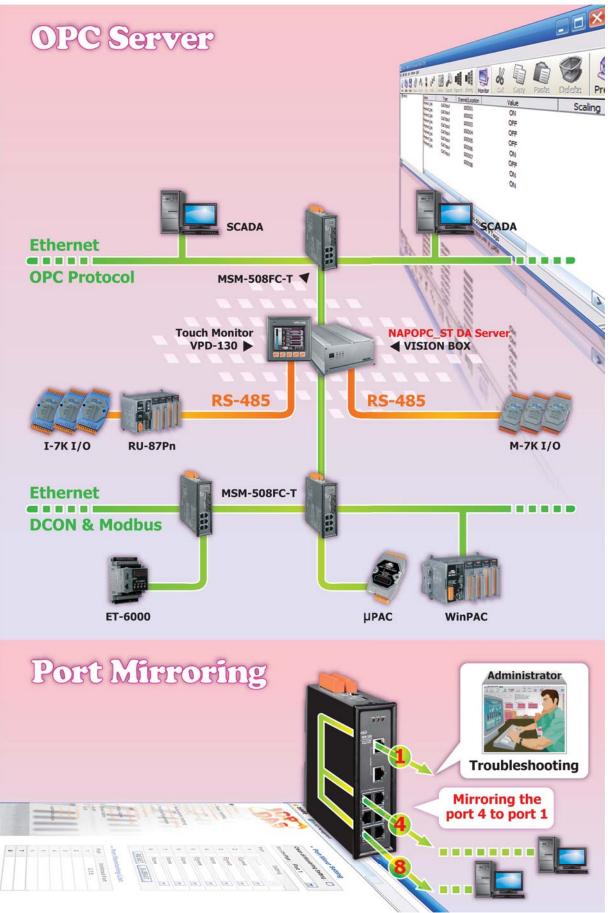


Specifications

| Model | MSM-508FT-T | MSM-508FC-T | MSM-508FCS-T | MSM-508FCS-60T |
|-----------------------------|--|------------------------------------|---|---|
| LED Indicators | | | | |
| Status | 10/100M, Link/Act, Full du | plex/Half duplex (Fiber Por | t) | |
| Ethernet | | | | |
| Ports | 6 x RJ-45, 10/100Base-TX | | | |
| Standards | IEEE 802.3, 802.3u and 802.3x | | | |
| Processing Type | Store & forward, wire speed switching | | | |
| MAC Table | 2048 | | | |
| Memory Bandwidth | 3.2 Gbps | | | |
| Frame Buffer Memory | 1 Mbit | | | |
| Flow Control | IEEE 802.3x flow control, back pressure flow control | | | |
| Protocol | VLAN, QoS, Port Trunk, SMTP, TELNET | | | |
| Redundant Strategy | STP, Ring (ICP DAS) | | | |
| Isolation | 1500 Vrms 1 minute | | | |
| DIP Switch | Yes, Normal Run/Repair Mode | | | |
| Fiber | | | | |
| Ports | 2-port 100 Base-FX ST connector | 2-port 100 Base-FX SC connector | | |
| Mode | Multi-Mode | | Single-Mode | |
| Fiber Cable | 50/125, 62.5/125 or 100/140 μm | | 8.3/125, 8.7/125, 9/125 or 10/125 μm | |
| Distance | 2 km, (62.5/125 µm recon | | 30 km, (9/125 µm recommended) for full duplex | 60 km, (9/125 µm recommended) for full duplex |
| Wavelength | 1300 or 1310 nm | | | |
| TX Output | -20 dBm Min. | | -15 dBm Min. | -5 dBm Min. |
| | -14 dBm Max. | | -8 dBm Max. | 0 dBm Max. |
| RX Sensitivity | -34 ~ -31 dBm | | -36 ~ -31 dBm | -35 dBm |
| Digital Input | | | | |
| Channels | 3 | | | |
| Туре | Wet Contact | | | |
| ON Voltage Level | +19 VDC ~ +30 VDC | | | |
| OFF Voltage Level | +11 VDC Max. | | | |
| Digital Output | 1 | | | |
| Channels | 3 | | | |
| Туре | Open Collector | | | |
| Sink/Source (NPN/PNP) | Sink (NPN) | | | |
| Load Current | 30V/100 mA Max. | | | |
| COM Ports | 1 | | | |
| Ports | 1 x RS-232 (Console) 1 x RS-485 | | | |
| Power | | | | |
| Reverse Polarity Protection | Yes | | | |
| Input Range | +12 VDC ~ +48 VDC Redundant Dual Inputs (Non-isolated) | | | |
| Redundant Power Inputs | Yes | | | |
| Consumption | 0.3 A @ 24 VDC | | | |
| Alarm Output | Yes,Relay 2 A @ 30 VDC | | | |
| Mechanical | | | | |
| Casing | Metal | | | |
| Dimensions (mm) | DIN-rail mounting: 47 x 175 x 142 (W x L x H) Wall mounting: 51 x 190 x 142 (W x L x H) | | | |
| Installation | DIN-rail mounting or wall mounting | | | |
| Ingress Protection Rating | IP30 | | | |
| Environment | | | | |
| Operating Temperature | -30 °C ~ +75 °C | | | |
| Storage Temperature | -40 °C ~ +85 °C | | | |
| Humidity | 10 ~ 90% RH, non-conde | nsing | | |



Applications



Ordering Information

| MSM-508FT-T CR | 8-port Layer 2 Managed Switch with 2-Fiber Port, Multi-mode, ST Connector (RoHS) Includes CA-090510 Console Cable and 4SIX1K0000003 Wall mount | | |
|-------------------|--|--|--|
| MSM-508FC-T CR | 8-port Layer 2 Managed Switch with 2-Fiber Port, Multi-mode, SC Connector (RoHS) Includes CA-090510 Console Cable and 4SIX1K0000003 Wall mount | | |
| MSM-508FCS-T CR | 8-port Layer 2 Managed Switch with 2-Fiber Port, Single-mode, SC Connector (RoHS) Includes CA-090510 Console Cable and 4SIX1K0000003 Wall mount | | |
| MSM-508FCS-60T CR | 8-port Layer 2 Managed Switch with 2-Fiber Port, Single-mode 60 km, SC Connector (RoHS) Includes CA-090510 Console Cable and 4SIX1K0000003 Wall mount | | |