



### Features ▶▶▶

- Automatic MDI/MDI-X crossover for plug-and-play
- Each port supports both 10/100 Mbps speed auto negotiation
- Supports wide operating temperature -40 °C ~ +75 °C
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- 3.2 Gbps high performance memory bandwidth
- Redundant Dual Power Inputs +12 V<sub>DC</sub> ~ +48 V<sub>DC</sub>  
Power failure alarm by relay output
- Frame buffer memory: 1 Mbit
- 2048 MAC addresses
- Store-and-forward architecture
- DIN-Rail Mounting, Wall Mounting
- Modbus remote monitoring
- Supports Modbus OPC Server
- Built-in Cyber-Ring redundant technique

### Introduction

The MSM-508 is an 8-port Industrial Ethernet (10/100 Base-TX) Layer 2 Managed Switch. MSM-508 supports 10/100M auto negotiation feature and auto MDI/MDI-X function. It can automatically switch the transmission speed (10 Mbps or 100 Mbps) for corresponding connections. The connectors of Ethernet port are shielded RJ-45. The shielded RJ-45 connectors offer a high reliability Ethernet environment for industrial control and automation.

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 that enable multiple switches to be placed into a redundant ring. Typically the switch detects and recovers from a copper link failure within approximately 20 ms – for the majority of applications a seamless process. Modbus/TCP, Modbus/RTU and OPC supported, SCADA application can monitor status of Ethernet port with Modbus or OPC protocol.

MSM-508 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.

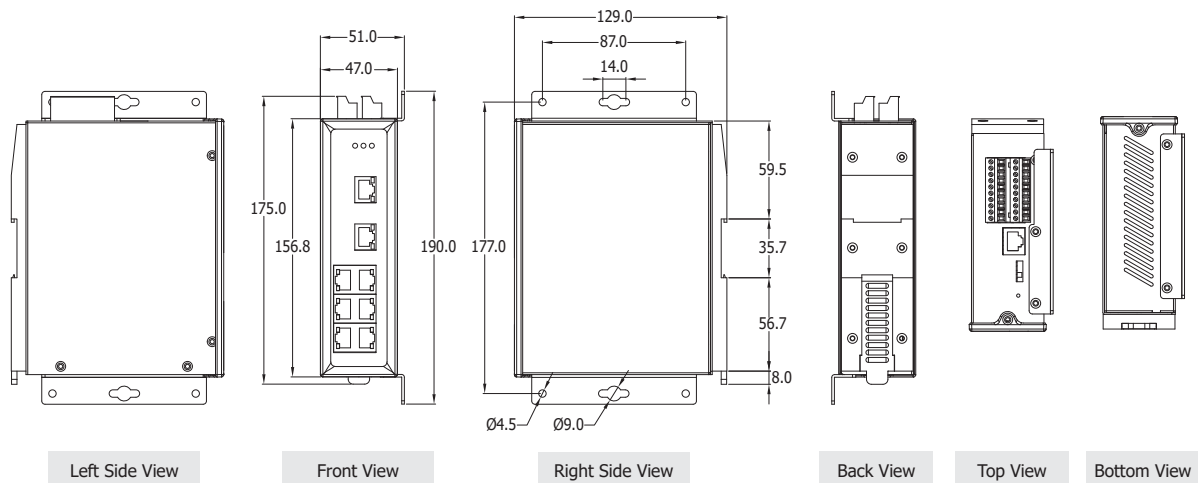
### Specifications

<b>Technology</b>	
<b>Standards</b>	IEEE 802.3, 802.3u and 802.3x
<b>Processing Type</b>	Store & forward, wire speed switching
<b>MAC Addresses</b>	2048
<b>Memory Bandwidth</b>	3.2 Gbps
<b>Frame Buffer Memory</b>	1 Mbit
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control
<b>Protocol</b>	VLAN, QoS, Port Trunk, SMTP, TELNET

## Specifications

<b>Interface</b>	
<b>RJ-45 Ports</b>	8-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection
<b>LED Indicators</b>	Power, 10/100M, Link/Act, Master
<b>Ethernet Isolation</b>	1500 V <sub>rms</sub> 1 minute
<b>COM1</b>	RS-232 (TxD, RxD and GND); Non-isolated
<b>COM2</b>	RS-485 (D2+, D2-; self-tuner ASIC inside); Non-isolated
<b>Frame Ground for EMS Protection</b>	Yes
<b>Digital Input/Output</b>	
<b>Digital Input</b>	3-channel, Wet Contact, L: +11 V <sub>dc</sub> Max., H: +19 V <sub>dc</sub> ~ +30 V <sub>dc</sub>
<b>Digital Output</b>	3-channel, Open Collector, Sink/NPN, 30V/100 mA Max.
<b>Power</b>	
<b>Input Voltage Range</b>	+12 V <sub>dc</sub> ~ +48 V <sub>dc</sub> Redundant Dual Inputs (Non-isolated)
<b>Power Consumption</b>	0.25 A @ 24 V <sub>dc</sub>
<b>Protection</b>	Power reverse polarity protection
<b>Frame Ground for EMS Protection</b>	Yes
<b>Connector</b>	20-Pin Removable Terminal Block
<b>Mechanical</b>	
<b>Casing</b>	Metal
<b>Environmental Rating</b>	IP30 Protection
<b>Dimensions (W x L x H)</b>	DIN-rail mounting: 47 mm x 175 mm x 129 mm Wall mounting: 51 mm x 190 mm x 129 mm
<b>Installation</b>	DIN-rail mounting or wall mounting
<b>Environmental</b>	
<b>Operating Temperature</b>	-40 °C ~ +75 °C
<b>Storage Temperature</b>	-40 °C ~ +85 °C
<b>Ambient Relative Humidity</b>	10% ~ 90% RH, non-condensing

## Dimensions (Units: mm)

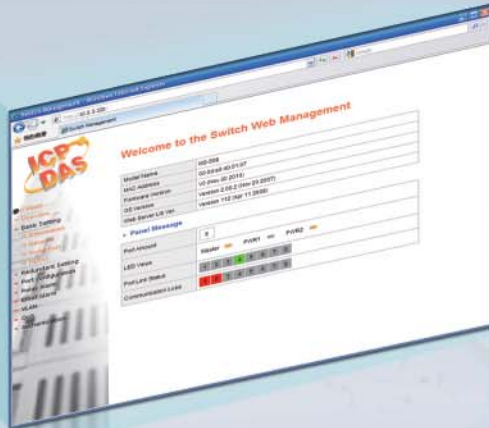


## Ordering Information

MSM-508 CR	8-port Layer 2 Managed Switch with metal casing (RoHS) Includes CA-090510 Console Cable and 4SIX1K0000003 Wall mount
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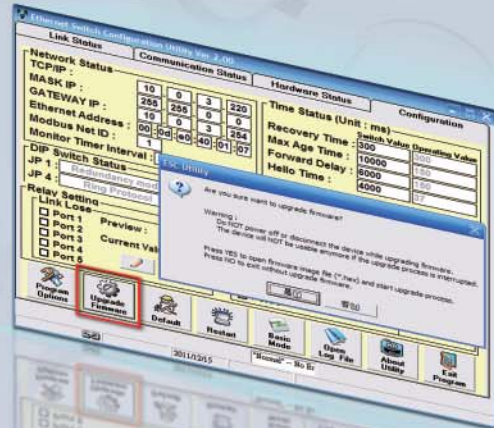
### Web Configuration

Built-in web-based management, providing a more convenient UI for the user.



### Firmware Upgrade

Use ESC Utility to upgrade firmware.



### Cable Test

This function provides a useful tool to detect the quality of cables. There are 4 types of status message can be displayed.

- Good: Normal cable.
- Test Fail: Cable checking fail.
- Open: Open in cable.
- Short: short in cable (or fiber).

Switch Management also can detect the problem approximate location and shows up in the Length field.

