

MSM-508F Series

8-port Industrial Ethernet Layer 2 Managed Switch with 2-Fiber Port



Features >>>>

- Automatic MDI/MDI-X crossover for plug-and-play
- Each port supports both 10/100 Mbps speed auto negotiation
- Full duplex IEEE 802.3x and half duplex backpressure flow control Store-and-forward architecture
- Supports wide operating temperatures from -30 °C ~ +75 °C
- Built-in Cyber-Ring redundant technique
- Redundant Dual Power Inputs +12 VDC ~ +48 VDC Power failure alarm by relay output
- Modbus remote monitoring
- Supports Modbus OPC Server
- Frame buffer memory: 1 Mbit
- 2048 MAC addresses
- 3.2 Gbps high performance memory bandwidth DIN-Rail Mounting, Wall Mounting

- 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 fiber 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.

- Specifications

Models	MSM-508FT-T	MSM-508FC-T	MSM-508FCS-T	MSM-508FCS-60T		
Technology						
Standards	IEEE 802.3, 802.3u and 802.3x					
Processing Type	Store & forward, wire speed switching					
MAC Addresses	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					

- *Specifications*

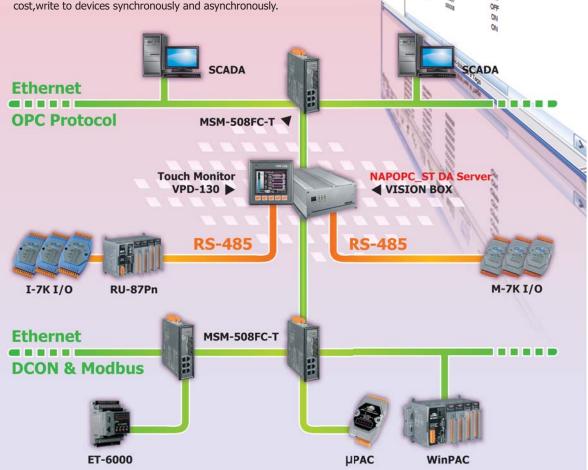
Models	MSM-508FT-T	MSM-508FC-T	MSM-508FCS-T	MSM-508FCS-60T		
LED Indicators						
Status	10/100M, Link/Act, Full duplex/Half duplex (Fiber Port)					
Ethernet						
Ports	6 x RJ-45, 10/100Base-TX					
Standards	IEEE 802.3, 802.3u and 802.3x					
Processing Type	Store & forward, wire speed switching					
MAC Addresses	2048	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	2-port 100 Base-FX 2-port 100 Base-FX				
1010	ST connector	SC connector				
Mode	Multi-Mode		Single-Mode			
Fiber Cable	50/125, 62.5/125 or 1	l00/140 μm	8.3/125, 8.7/125, 9/125 or 10/125 μm			
Distance	2 km, (62.5/125 µm r for full duplex	ecommended)	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. -14 dBm Max.		-15 dBm Min. -8 dBm Max.	-5 dBm Min. 0 dBm Max.		
RX Sensitivity	-34 ~ -31 dBm		-36 ~ -31 dBm	-35 dBm		
Digital Input						
Channels						
Туре	3 Wet Contact					
Wet Contact, ON Voltage Level	+19 VDC ~ +30 VDC					
Wet Contact, OFF Voltage Level	+19 VDC ~ +30 VDC +11 VDC Max.					
Digital Output						
Channels	3					
Туре	3 Open Collector					
Sink/Source (NPN/PNP)	·					
Max. Load Current	Sink/NPN 30V/100 mA Max					
COM Ports	30V/100 mA Max.					
Ports	1 x RS-232 (Console) 1 x RS-485					
Power						
Reverse Polarity Protection	Yes	Yes				
Input Range	+12 VDC ~ +48 VDC Redundant Dual Inputs (Non-isolated)					
Redundant Power Inputs	Yes					
Consumption						
Alarm Contact	0.3 A @ 24 VDC					
Mechanical	105, Neldy 2 A @ 30 V	Yes, Relay 2 A @ 30 VDC				
	Metal					
Casing		mm v 175 mm v 170				
Dimensions (W x L x H)	DIN-rail mounting: 47 mm x 175 mm x 142 mm Wall mounting: 51 mm x 190 mm x 142 mm					
Installation	DIN-rail mounting or wall mounting					
Ingress Protection Rating	IP30					
Environmental						
Operating Temperature	-30 °C ~ +75 °C					
Storage Temperature	-40 °C ~ +85 °C					
Humidity	10% ~ 90% RH, non-condensing					
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- Applications

OPC Server

NAPOPC_ST DA Server is a **free** OPC DA Server **(The "OPC" stands for "OLE for Process Control"and the "DA" stands for "Data Access")** for ICP DAS products. NAPOPC_ST DA Server provides many benefits to users such as reduce time through lower system integration costs, integrate easily with plug-and-play SCADA/HMI/Database, connect and interoperate easily to custom applications, access to data by anyone in the automation hierarchy, reduce troubleshooting and maintenance cost, write to devices synchronously and asynchronously.



Port Mirroring

Port Mirroring is used on a network switch to send a copy of network packets seen on one switch port to a network monitoring connection on another switch port. This is commonly used for network appliances that require monitoring of network traffic, such as an intrusion-detection system. Network Engineers or Administrators use port mirroring to analyze and debug data or diagnose errors on a network. It helps the administrator keep a close eye on network performance and will alert them when problems occur. It can be used to mirror either inbound or outbound traffic on single or multiple interfaces.



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Pr

Scaling

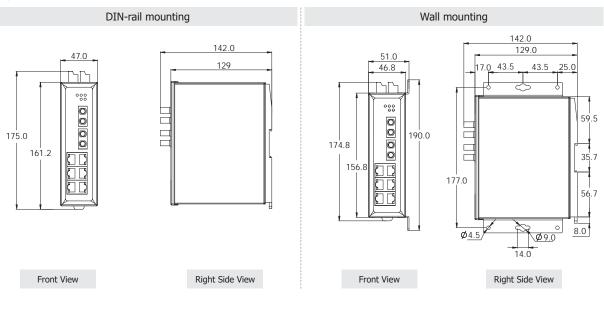
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Value

ON OFF OFF

ON

-¢- Dimensions (Units: mm)



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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		