

MS-2404GS-8C



16+8+4 Port Industrial Managed Gigabit Ethernet Switch



- 16x Gigabit Ethernet
- 8x Gigabit combo Ethernet
- 4x 1000 SFP Slot
- Built for harsh environments and wide temperature range application
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2, up to 1023 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- USB storage for configuration-free replacement
- Support industrial automation protocols Ethernet/IP and Modbus TCP
- Compliance with IEC61850-3 and IEEE1613



Specifications

Technology

Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3z 1000BaseX IEEE 802.3x Flow Control IEEE 802.3ad LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid STP IEEE 802.1s Multiple STP* ITU-T G.8032 / Y.1344 ERPS IEEE 802.1Q VLAN Tagging IEEE 802.1ad Stacked VLANs IEEE 802.1p Class of Service IEEE 802.1X Network Authentication IEEE 802.1AB LLDP
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Processing Type Store and Forward

Switch Properties

Priority Queues	8 Queues
Jumbo Frame	16000bytes
MAC Table Size	16K
VLAN Table Size	4094
IGMP Group	1023
Packet Buffer	12Mbits

Software Feature

Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP
Security	802.1X, RADIUS, TACACS+, SSL, SSH
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, uPnP, SNMP v1/v2c/v3
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP
Configuration	DHCP Server/Client, Relay Option 82, TFTP, USB
Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2, IGMP Querier, Independent Vlan Learning
Time Sync.	NTP
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
Industrial Profiles	Ethernet/IP, Modbus TCP

Interface

RJ45 Port	16x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
Combo Port	8x 10/100/1000T(x) with SFP combo port, auto media detect
Fiber Port	4x 1000 SFP Slot
LED Indicators	Per unit: PWR1, PWR2, Fault, Ring Master, Ring State

Ports: Link/Active with highest speed(Green), low speed(Amber)

Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
Digital Inputs	1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA
Button	Multiple functions reset button
Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog

Power Requirements

Operation Voltage	90~264VAC or 18~36VDC or 36~75VDC, redundant dual inputs
Connection	AC socket, DC 4-pin terminal block
Power Consumption	30W
Protection	Overload Current Protected, Reverse Polarity Protected

Mechanical Construction

Enclosure	Aluminum / Steel met
Protection Class	IP30
Dimensions	440x44x331 mm (WxHxD)
Weight	6.00 kg

Mounting DIN-Rail Mounting, Optional Wall Mounting Kits

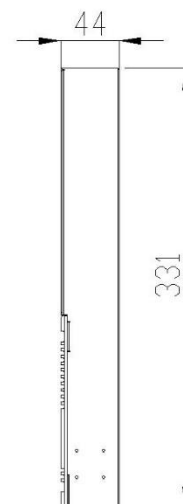
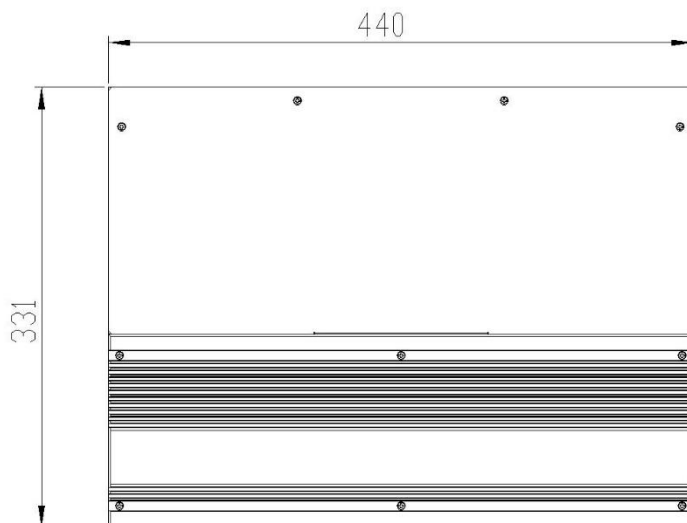
Environmental Limits

Operating Temperature	Standard: -10°C ~ 60°C (14°F ~ 140°F) Extended: -40°C ~ 85°C (-40°F ~ 185°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A CE EN 55022 Class A
EMS	IEC61000-4-2 (ESD Level 4) IEC61000-4-3 (RS Level 3) IEC61000-4-4 (EFT Level 4) IEC61000-4-5 (Surge Level 4) IEC61000-4-6 (CS Level 3) IEC61000-4-8 (Magnetic Field Level 4)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	UL 60950-1/62368 (Pending) IEC 61850-3 IEEE 1613
MTBF	>100,000 hours
Warranty	5 Years

Dimensions (unit = mm)



Ordering Information

MS-2404GS-AC	16+8+4 Port Industrial Managed Gigabit Ethernet Switch - 16x 10/100/1000T(x) + 8x Combo Ports + 4x 1000 SFP Slot - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 2x AC power input
MS-2404GS-AD	16+8+4 Port Industrial Managed Gigabit Ethernet Switch - 16x 10/100/1000T(x) + 8x Combo Ports + 4x 1000 SFP Slot - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 1x AC power and 1x 24VDC power input
MS-2404GS-DC	16+8+4 Port Industrial Managed Gigabit Ethernet Switch - 16x 10/100/1000T(x) + 8x Combo Ports + 4x 1000 SFP Slot - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 2x 24VDC robust isolation power input
MS-2404GS-DC48	16+8+4 Port Industrial Managed Gigabit Ethernet Switch - 16x 10/100/1000T(x) + 8x Combo Ports + 4x 1000 SFP Slot - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 2x 48VDC robust isolation power input



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