

MS-2404GS-8C

16+8+4 Port Industrial Managed Gigabit Ethernet Switch



- Compliant with IEC61850-3 and IEEE1613
- 16x Gigabit Ethernet ports
- 8x Gigabit combo Ethernet
- 4x 1000F(x) 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/v3, up to 512 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection
- USB storage for configuration-free replacement
- Support industrial automation protocols Ethernet/IP and Modbus TCP

Specifications

Technology

Standard

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseX
IEEE 1588 PTP

IEEE 802.3x Flow Control
IEEE 802.3az Energy-Efficient Ethernet
IEEE 802.3ad/802.1AX 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

Processing Type

Store and Forward

Switch properties

Priority Queues 8 Queues

Jumbo Frame 9216bytes

MAC Table Size 16K

Packet Buffer 12Mbits

VLAN Table Size 4094

IGMP Group 1023

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, SNMP v1/v2c/v3, uPnP

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/v3, IGMP Querier, Independent Vlan Learning

Time Sync. NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)

QoS CoS, DSCP, WRR/SPQ Queuing, Storm Protection

PoE Powering Status, PoE Monitoring, Scheduling, PD Alive Check

Industrial Profiles Ethernet/IP, Modbus TCP, Profinet

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Interface

RJ45 Ports	16x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
Combo Port	8x 10/100/1000T(x) with dual speed SFP combo port, auto media detect
Fiber Port	4x 1000F(x) SFP Slot + 8x 100/1000F(x) SFP Slot
LED Indicators	Per unit: PWR1, PWR2(AC2/DC2), Fault, Ring Master, Ring State Ports: Link/Active with Green LED on the left, Speed on the right with highest speed(Amber), low speed(OFF)

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, 88~370VDC, 18~36VDC, 36~75VDC, redundant dual inputs
Connection	AC socket, DC 4-pin terminal block
Power Consumption	30W

Protection	Overload Current Protected, Reverse Polarity Protected
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Mechanical Construction

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

Weight	4.80 kg
Mounting	Rack Mounting

Environmental Limits

Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)

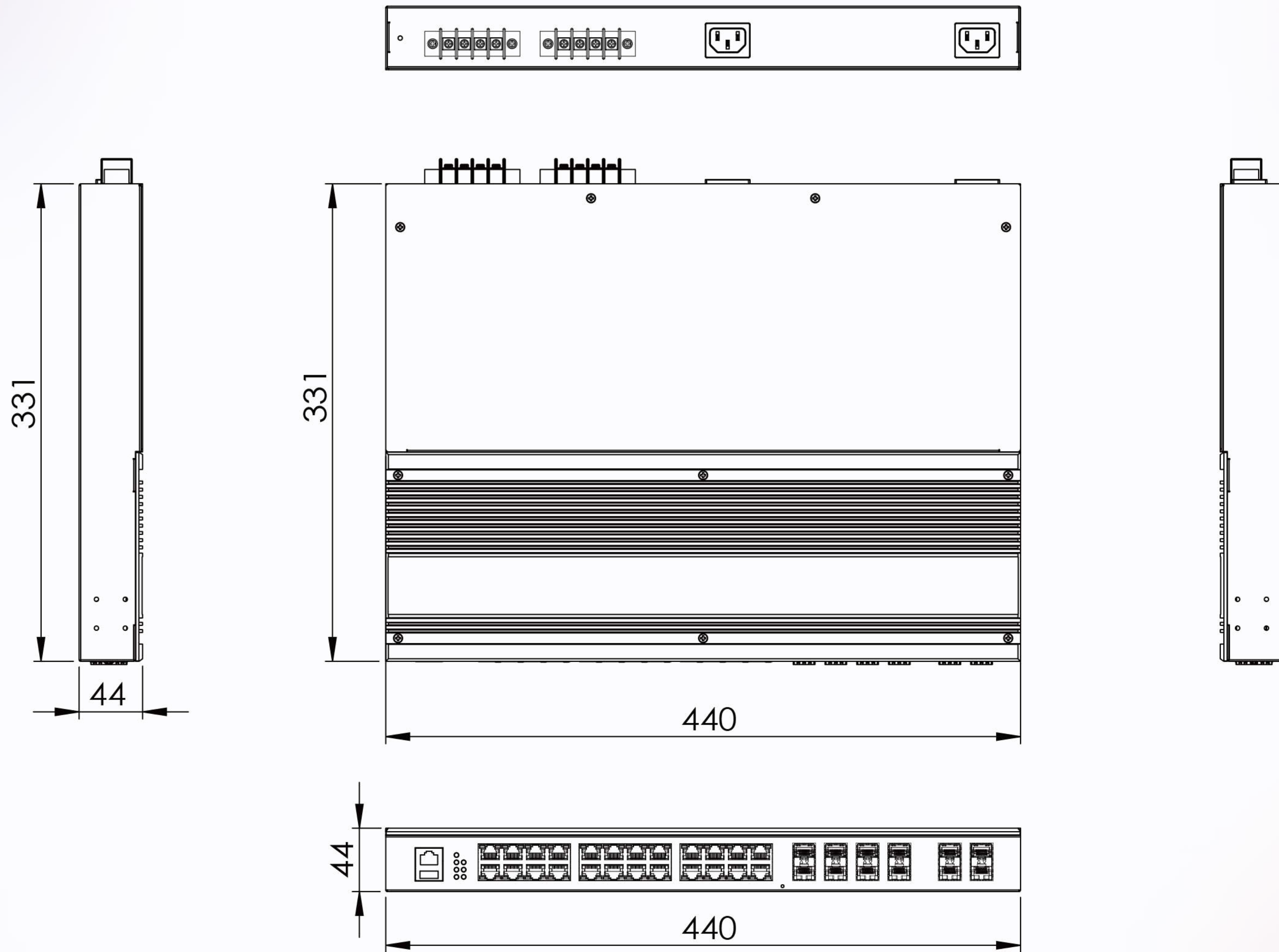
Ambient Relative Humidity	5 to 95%, (Non-Condensing)
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Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27

Green	RoHS Compliant
Certifications	UL 62368 (Optional) IEC 61850-3 IEEE 1613
MTBF	>100,000 hours
Warranty	5 Years
Vibration	IEC60068-2-6

Dimensions (unit = mm)



Ordering Information

Available Models

<p>MS-2404GS-8C-AC 16+8+4 Port Industrial Managed Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 16x 10/100/1000T(x) + 4x 1000F(x) SFP Slot + 8x Combo Ports - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 2x AC Power Input 	<p>MS-2404GS-8C-AD 16+8+4 Port Industrial Managed Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 16x 10/100/1000T(x) + 4x 1000F(x) SFP Slot + 8x Combo Ports - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 1x AC Power and 1x DC Power Input
<p>MS-2404GS-8C-DC 16+8+4 Port Industrial Managed Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 16x 10/100/1000T(x) + 4x 1000F(x) SFP Slot + 8x Combo Ports - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 2x DC Robust Isolation Power Input 	<p>MS-2404GS-8C-DC48 16+8+4 Port Industrial Managed Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 16x 10/100/1000T(x) + 4x 1000F(x) SFP Slot + 8x Combo Ports - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 2x 48VDC Robust Isolation Power Input
<p>MS-2404GS-8C-ACU 16+8+4 Port Industrial Managed Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 16x 10/100/1000T(x) + 4x 1000F(x) SFP Slot + 8x Combo Ports - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 2x AC Power Input - UL Certified 	<p>MS-2404GS-8C-ADU 16+8+4 Port Industrial Managed Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 16x 10/100/1000T(x) + 4x 1000F(x) SFP Slot + 8x Combo Ports - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 1x AC Power and 1x 12-48VDC Power Input - UL Certified
<p>MS-2404GS-8C-DCU 16+8+4 Port Industrial Managed Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 16x 10/100/1000T(x) + 4x 1000F(x) SFP Slot + 8x Combo Ports - Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) - 2x 12-48VDC Robust Isolation Power Input - UL Certified 	