

MH-0804G2

8+4 Port Industrial Managed PoE++ Gigabit Ethernet Switch



- 8x Gigabit Ethernet ports with 4x IEEE 802.3at PoE+ and 2x IEEE 802.3bt 95W PoE++
- 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
- Supports PoE PD Alive Check Function for PoE Device Power Recycle

Specifications

Technology

Standard

IEEE 802.3 10BaseT	IEEE 802.3az Energy-Efficient Ethernet	IEEE 802.1D Spanning Tree Protocol	IEEE 802.1ad Stacked VLANs
IEEE 802.3u 100BaseTX	IEEE 802.3af Power over Ethernet	IEEE 802.1w Rapid STP	IEEE 802.1p Class of Service
IEEE 802.3ab 1000BaseT	IEEE 802.3at PoE+	IEEE 802.1s Multiple STP	IEEE 802.1X Network Authentication
IEEE 802.3z 1000BaseX	IEEE 802.3bt PoE++	ITU-T G.8032 / Y.1344 ERPS	IEEE 802.1AB LLDP
IEEE 802.3x Flow Control	IEEE 802.3ad/802.1AX LACP	IEEE 802.1Q VLAN Tagging	

Processing Type

Store and Forward

Switch properties

Priority Queues	8 Queues	Packet Buffer	12Mbits
Jumbo Frame	9216bytes	VLAN Table Size	4094
MAC Table Size	16K	IGMP Group	1023

Software Feature

Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP	Time Sync.	NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)
Security	802.1X, RADIUS, TACACS+, SSL, SSH	QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP	PoE	Powering Status, PoE Monitoring, Scheduling, PD Alive Check
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP	Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet
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		

Interface

RJ45 Ports	8x 10/100/1000T(x) with 4x PoE+ and 2x PoE++, auto negotiation speed duplex mode, auto MDI/MDI-X	Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
Fiber Port	4x 1000F(x) SFP Slot	Digital Inputs	1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A V+, V+, V-, V-, for pin 4, 5, 7, 8, Endspan, MDI Mode B 4-pair mode for 802.3bt	Button	Multiple functions reset button
LED Indicators	Per unit: PWR1, PWR2, Fault, Ring Master, Ring State Ports: Link/Active with highest speed(Green), low speed(Amber) PoE: Output Power	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	50-57VDC, redundant dual inputs, >50VDC for PoE+ output recommended	PoE Power Budget	Max. 240 W for total PD consumption, Max. 90W/30W per PoE port
Connection	1x removable 4-contact terminal block	Protection	Overload Current Protected, Reverse Polarity Protected
Power Consumption	0.36A@50VDC without PDs' consumption		

Mechanical Construction

Enclosure	Aluminum	Weight	0.90 kg
Protection Class	IP30	Mounting	DIN-Rail Mounting, Optional Wall Mounting Kits
Dimensions	72x145x118 mm (WxHxD)		

Environmental Limits

Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)	Ambient Relative Humidity	5 to 95%, (Non-Condensing)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)		

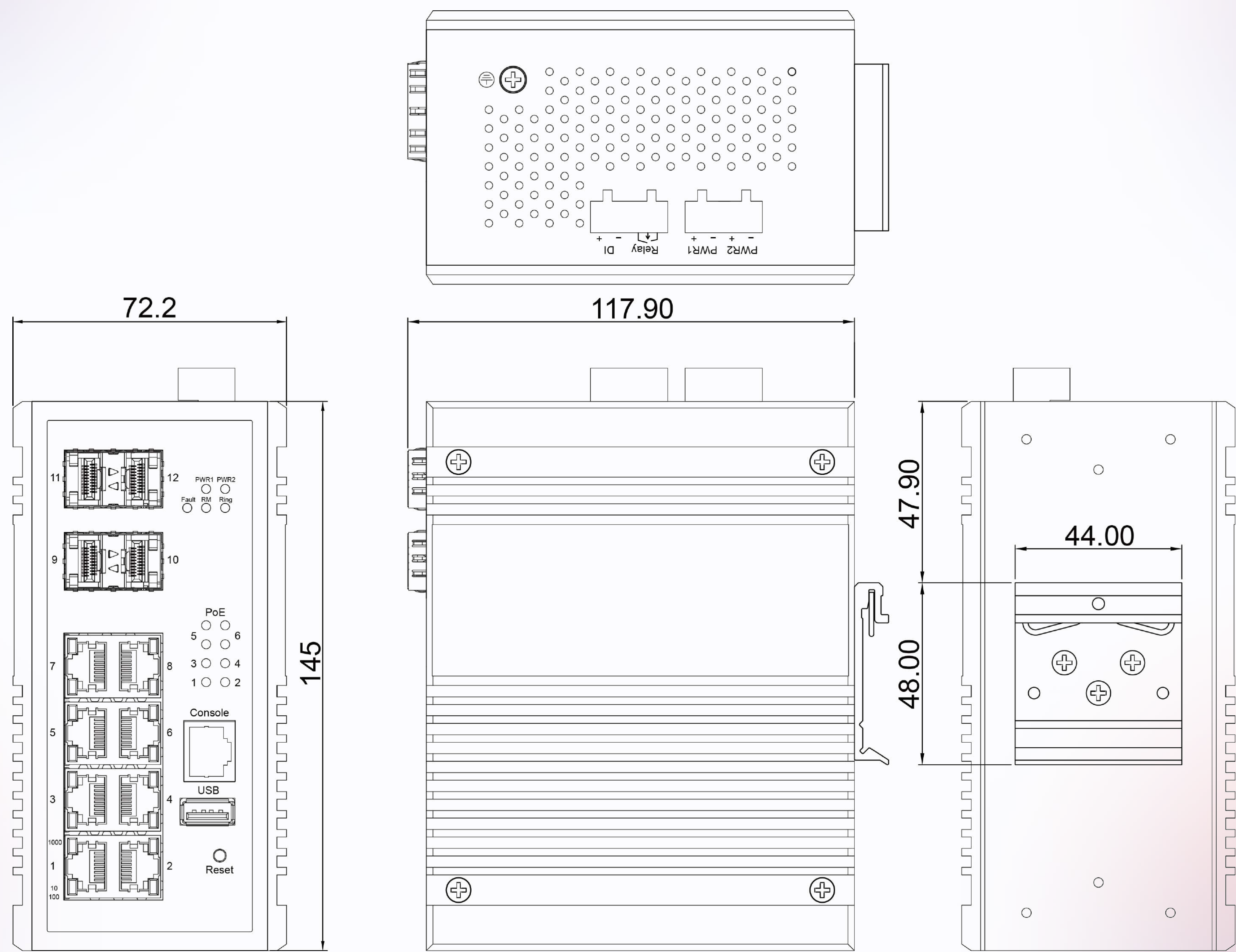
Regulatory Approvals

EMI	CE EN 55032 Class A	Shock	IEC60068-2-27
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)	Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32	Green	RoHS Compliant
		Certifications	UL 60950-1/62368 (Pending) IEC 61000-6-2 IEC 61000-6-4
		MTBF	>100,000 hours
		Warranty	5 Years

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Dimensions (unit = mm)



Ordering Information

Available Models

- MQ-0804G2-T** 8+4 Port Industrial Managed PoE++ Gigabit Ethernet Switch
- 8x 10/100/1000T(x) with 4x 30W PSE and 2x 95W PSE + 4x 1000F(x) SFP Slot
 - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)

Optional Accessories

NDR-240-48 240W Industrial DIN-Rail Power Supply, 48VDC (metal case)

NDR-480-48 480W Industrial DIN-Rail Power Supply, 48VDC (metal case)