

MS-0802G

8+2 Port Industrial Managed Gigabit Ethernet Switch



- 8x Gigabit Ethernet ports
- 2x 1000F(x) SFP Slot
- Built for harsh environments and wide temperature range application
- RSTP, MSTP, ERPS, LACP, MRP 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
- Supports industrial automation protocols Ethernet/IP and Modbus TCP

Specifications

Technology

IEEE 802.3 10BaseT
 IEEE 802.3u 100BaseTX
 IEEE 802.3ab 1000BaseT
 IEEE 802.3z 1000BaseX
 IEEE 802.3x Flow Control
 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
 IEC 62439-2 Media Redundancy Protocol
 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
 IEEE 1588 PTP

Standards

Processing Type Store and Forward

Switch Properties

Switch Fabric 20Gbps
Priority Queues 8 Queues
Jumbo Frame 9216bytes
MAC Table Size 16K
Packet Buffer 12Mbits
VLAN Table Size 4094
IGMP Group 512

ACL Group 512

Software Feature

Network Redundancy RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP, IEC 62439-2 MRP

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

Industrial Profiles Ethernet/IP, Modbus TCP

Interface

RJ45 Port 8x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X

Fiber Port 2x 1000F(x) 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

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|--------------------------|--|
| Operation Voltage | 12-48VDC, redundant dual inputs |
| Connection | 1x removable 4-contact terminal block |
| Power Consumption | 0.51A@24VDC |
| Protection | Overload Current Protected, Reverse Polarity Protected |

Mechanical Construction

| | |
|-------------------------|----------------------------------|
| Enclosure | Aluminum |
| Protection Class | IP30 |
| Dimensions | 72x145x118 mm (WxHxD) |
| Weight | 0.85 kg |
| Mounting | DIN-Rail Mounting, Optional Wall |

Features with star(*) implies those are under development.

In a continuing effort of improvement and updated technology, product specifications are subject to change without notice.

Mounting Kits

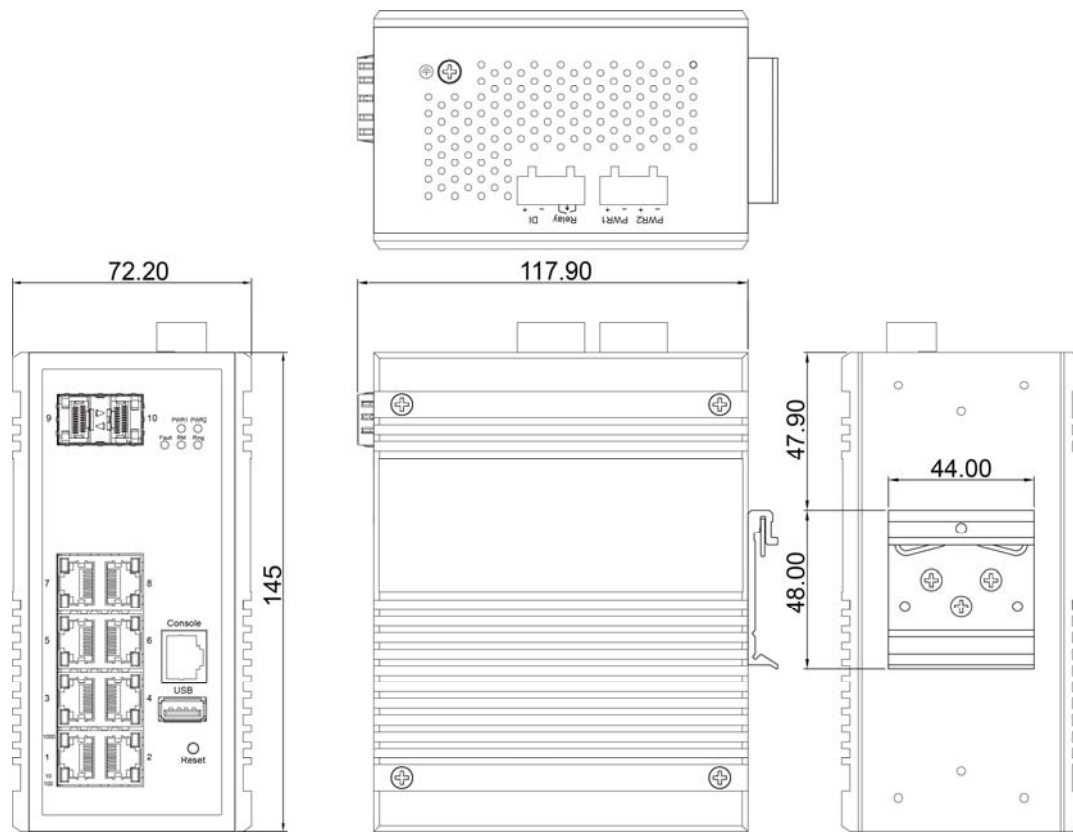
Environmental Limits

| | |
|----------------------------------|---|
| Operating Temperature | Standard: -10°C ~ 60°C (14°F ~ 140°F) 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) |

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 |
| Vibration | IEC60068-2-6 |
| Green | RoHS Compliant |
| Certifications | UL 60950-1/62368 (Pending) IEC 61000-6-2 IEC 61000-6-4 EN 50121-4 |
| MTBF | >100,000 hours |
| Warranty | 5 Years |

Dimensions (unit = mm)



Ordering Information

MS-0802G 8+2 Port Industrial Managed Gigabit Ethernet Switch
 - 8x 10/100/1000T(x) + 2x 1000F(x) SFP Slot
 - Operating Temperature: -10°C ~ 60°C (14°F ~ 140°F)

MS-0802G-T 8+2 Port Industrial Managed Gigabit Ethernet Switch
 - 8x 10/100/1000T(x) + 2x 1000F(x) SFP Slot
 - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)

Optional Accessories

MDR-20-24 Industrial DIN-Rail Power Supply with 24VDC Output, provide max. 20W Power

MDR-40-48 Industrial DIN-Rail Power Supply with 48VDC Output, provide max. 40W Power

MDR-60-48 Industrial DIN-Rail Power Supply with 48VDC Output, provide max. 60W Power