

MT-1000G-M12

10 Port M12 Industrial Managed PoE+ Booster Gigabit Ethernet Switch



- Compliant with EN50155
- 10x 10/100/1000T(x) M12 connector with 8x IEEE 802.3at PoE+
- Support Bypass function for non-stop communication even when no power exists on port 9 and port 10
- 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
- Supports industrial automation protocols Ethernet/IP and Modbus TCP
- Supports PoE PD Alive Check Function for PoE Device Power Recycle
- Isolated redundant PoE power 190W



Specifications

Technology

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3ab 1000BaseT
IEEE 802.3x Flow Control
IEEE 802.3af Power over Ethernet
IEEE 802.3at PoE+
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
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
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
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
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Industrial Profiles	Ethernet/IP, Modbus TCP
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Interface

Network Connector	10x 10/100/1000T(x) M12 Female X-coded 8-pole with 8x PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X
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LED Indicators	Per unit: PWR1, PWR2, Status Ports: Link/Active with highest speed(Green), low speed(Amber) PoE: Output Power
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Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
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Serial Console	1x RS232 in M12 Male A-coded 5-pole connector with console cable, 115.2Kbps, 8N1
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Power Requirements

Operation Voltage	24VDC, 48VDC, HV: 72-110VDC, redundant dual inputs
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Connection	M12 Male S-coded 4-pole
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Power Consumption	15W without PDs' consumption
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PoE Power Budget	Max. 30 W per PoE port. Max. total output power for PD: 190W@24V input.
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Protection	Overload Current Protected, Reverse Polarity Protected
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Mechanical Construction

Enclosure	SECC
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Protection Class	IP54
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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.

Dimensions	143x209x77 mm (WxHxD)
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Weight	2.16 kg
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Mounting	Wall Mounting Kits, Optional DIN-Rail Mounting
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Environmental Limits

Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
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Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
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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
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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)
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Free Fall	IEC60068-2-32
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Shock	IEC61373
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Vibration	IEC61373
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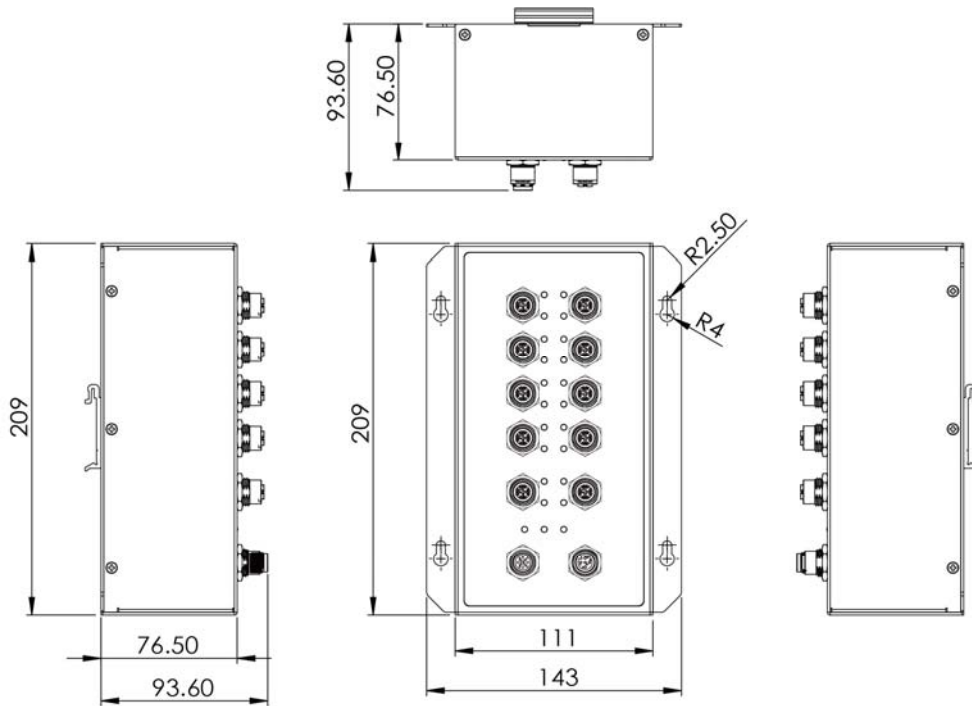
Green	RoHS Compliant
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Certifications	EN 50155 EN 45545-2
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MTBF	>100,000 hours
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Warranty	5 Years
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Dimensions (unit = mm)



Ordering Information

MT-1000G-M12-24V2U-T	<p>10 Port M12 Industrial Managed PoE+ Booster Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 10x 10/100/1000T(x) M12 connector with 8x 30W PSE - Power Input: 24VDC - Max. Power Budget: 190W - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - UL Compliant
MT-1000G-M12-48V2U-T	<p>10 Port M12 Industrial Managed PoE+ Booster Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 10x 10/100/1000T(x) M12 connector with 8x 30W PSE - Power Input: 48VDC - Max. Power Budget: 190W - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - UL Compliant
MT-1000G-M12-HV2U-T	<p>10 Port M12 Industrial Managed PoE+ Booster Gigabit Ethernet Switch</p> <ul style="list-style-type: none"> - 10x 10/100/1000T(x) M12 connector with 8x 30W PSE - Power Input: 72-110VDC - Max. Power Budget: 156W - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - UL Compliant