

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 165W

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 802.3az 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
- 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, RSPAN

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)

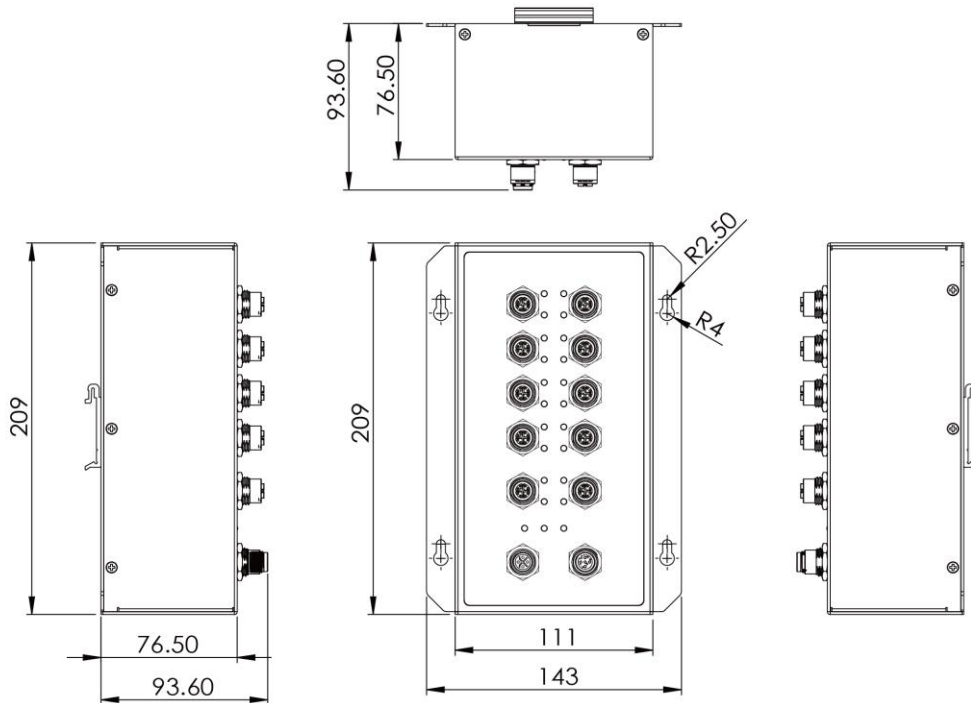
QoS CoS, DSCP, WRR/SPQ Queuing, Storm

	Protection
PoE	Powering Status, PoE Monitoring, Scheduling, PD Alive Check
Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet, TRDP
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
LED Indicators	Per unit: PWR1, PWR2, Status Ports: Link/Active with highest speed(Green), low speed(Amber) PoE: Output Power
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
Serial Console	1x RS232 in M12 Male A-coded 5-pole connector with console cable, 115.2Kbps, 8N1
Power Requirements	
Operation Voltage	9-36VDC, 19-75VDC, 43-160VDC, redundant dual inputs, >50VDC for PoE+ output recommended
Connection	M12 Male S-coded 4-pole
Power Consumption	0.6A@24VDC; 0.33A@48VDC; 0.15A@110VDC
PoE Power Budget	Max. 30 W per PoE port. Max. total output power for PD: 190W@24V input.
Protection	Overload Current Protected, Reverse Polarity Protected
Mechanical Construction	
Enclosure	SECC

Protection Class	IP40/IP54(Optional)
Dimensions	143x209x77 mm (WxHxD)
Weight	2.16 kg
Mounting	Wall Mounting Kits, Optional DIN-Rail 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)
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	IEC61373
Vibration	IEC61373
Green	RoHS Compliant
Certifications	EN 50155 EN 45545-2
MTBF	>100,000 hours
Warranty	5 Years

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 (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: 165W - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP40
MT-1000G-M12-24V2U-WT	<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: 165W - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP54
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: 165W - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP40
MT-1000G-M12-48V2U-WT	<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: 165W - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP54
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) - Protection Class: IP40
MT-1000G-M12-HV2U-WT	<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) - Protection Class: IP54