

MT-0802X

8+2 Port Industrial Managed PoE+ Booster Ethernet Switch with 10G Uplink



- 8x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 2x 1/10 Gigabit Ethernet SFP+ Slot
- Built for harsh environments and wide temperature range application
- RSTP, MSTP, ERPS, MRP, 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
- Supports industrial automation protocols Ethernet/IP and Modbus TCP
- Supports PoE PD Alive Check Function for PoE Device Power Recycle
- Power Boost for PoE+

Specifications

Technology

- IEEE 802.3 10BaseT
- IEEE 802.3u 100BaseTX
- IEEE 802.3ab 1000BaseT
- IEEE 802.3ae 10GBase over Fiber
- 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
- 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 56Gbps

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, IEC 62439-2 MRP, 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, 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
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Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet
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Interface

RJ45 Port	8x 10/100/1000T(x) with PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X
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Fiber Port	2x 1/10 Gigabit Ethernet SFP+ Slot
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PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A
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LED Indicators	Per unit: PWR1, PWR2, Fault, Ring Master, Ring State 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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Digital Inputs	1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA
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Button	Multiple functions reset button
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Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
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Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog
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Power Requirements

Operation Voltage	12-57VDC, redundant dual inputs, >50VDC for PoE+ output recommended
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Connection	1x removable 4-contact terminal block
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Power Consumption	17W 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, 90W@12V input.
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Protection	Overload Current Protected, Reverse Polarity Protected
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Mechanical Construction

Enclosure	Aluminum
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Protection Class	IP30
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Dimensions	72x145x118 mm (WxHxD)
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Weight	1.02 kg
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Mounting	DIN-Rail Mounting, Optional Wall Mounting Kits
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Environmental Limits

Operating Temperature	Standard: -10°C ~ 60°C (14°F ~ 140°F) Extended: -40°C ~ 60°C (-40°F ~ 140°F) For 10G SFP+: -40 ~ 60°C (32°F ~ 140°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	IEC60068-2-27
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Vibration	IEC60068-2-6
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Green	RoHS Compliant
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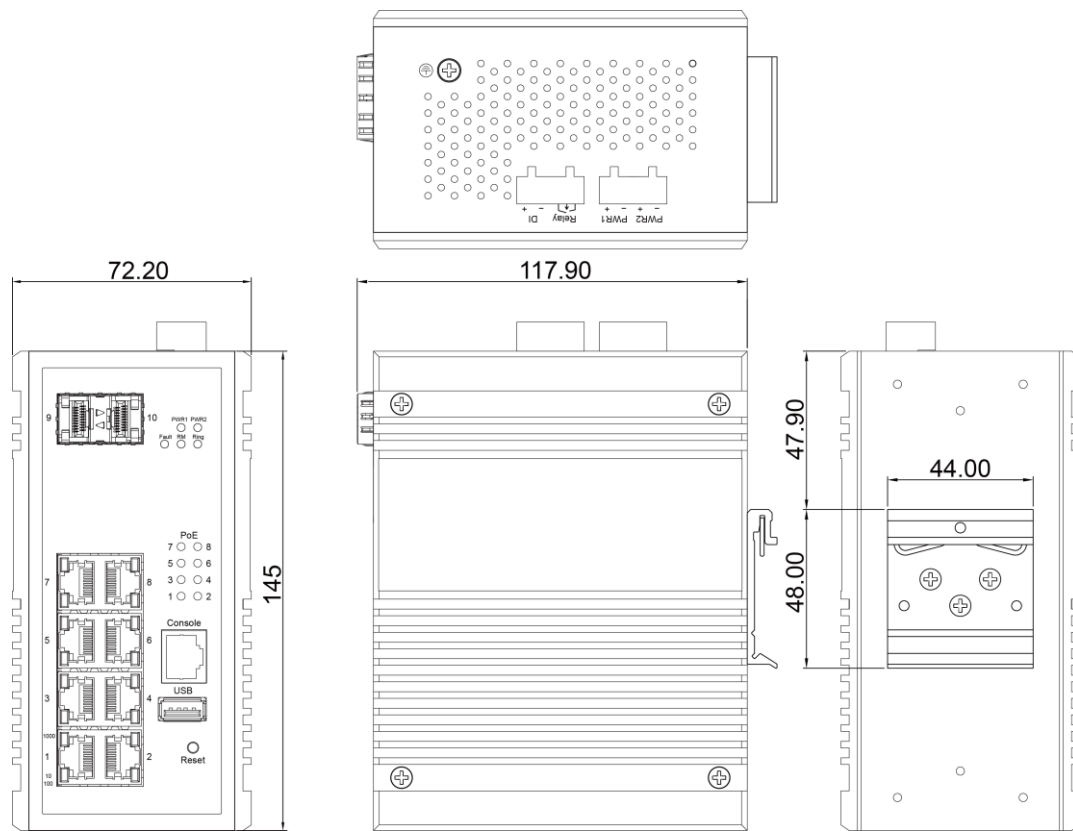
Certifications	UL 60950-1/62368 (Pending) IEC 61000-6-2 IEC 61000-6-4 EN 50121-4
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MTBF	>100,000 hours
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Warranty	5 Years
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Features with star(*) implies those are under development. In a continuing effort of improvement and updated technology, product specifications are subject to change without notice.

Dimensions (unit = mm)



Ordering Information

MT-0802X	8+2 Port Industrial Managed PoE+ Booster Ethernet Switch with 10G Uplink - 8x 10/100/1000T(x) with 30W PSE + 2x 1/10 Gigabit Ethernet SFP+ Slot - Operating Temperature: -10°C ~ 60°C (14°F ~ 140°F)
MT-0802X-T	8+2 Port Industrial Managed PoE+ Booster Ethernet Switch with 10G Uplink - 8x 10/100/1000T(x) with 30W PSE + 2x 1/10 Gigabit Ethernet SFP+ Slot - Operating Temperature: -40°C ~ 60°C (-40°F ~ 140°F) For 10G SFP+: -40 ~ 60°C (-40°F ~ 140°F)

Optional Accessories

NDR-240-24	240W Industrial DIN-Rail Power Supply, 24VDC (metal case)
NDR-480-24	480W Industrial DIN-Rail Power Supply, 24VDC (metal case)