

MT-0804X

8+4 Port Industrial Managed PoE+ Booster Ethernet Switch with 10G Uplink



- 8x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 4x 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 96Gbps

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 |
|------------|---|

| | |
|----------------------------|-----------------------------------|
| Industrial Profiles | Ethernet/IP, Modbus TCP, Profinet |
|----------------------------|-----------------------------------|

Interface

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

| | |
|-------------------|------------------------------------|
| Fiber Port | 4x 1/10 Gigabit Ethernet SFP+ Slot |
|-------------------|------------------------------------|

| | |
|--------------------|---|
| PoE Pin Out | V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A |
|--------------------|---|

| | |
|-----------------------|--|
| LED Indicators | Per unit: PWR1, PWR2, Fault, Ring Master, Ring State 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 |
|----------------------|---|

| | |
|-----------------------|---|
| 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

| | |
|--------------------------|---|
| Operation Voltage | 12-57VDC, redundant dual inputs, >50VDC for PoE+ output recommended |
|--------------------------|---|

| | |
|-------------------|---------------------------------------|
| Connection | 1x removable 4-contact terminal block |
|-------------------|---------------------------------------|

| | |
|--------------------------|--------------------------------------|
| Power Consumption | 0.90A@24VDC without PDs' consumption |
|--------------------------|--------------------------------------|

| | |
|-------------------------|--|
| PoE Power Budget | Max. 30 W per PoE port. Max. total output power for PD: 190W@24V input, 90W@12V input. |
|-------------------------|--|

| | |
|-------------------|--|
| Protection | Overload Current Protected, Reverse Polarity Protected |
|-------------------|--|

Mechanical Construction

| | |
|------------------|----------|
| Enclosure | Aluminum |
|------------------|----------|

| | |
|-------------------------|------|
| Protection Class | IP30 |
|-------------------------|------|

| | |
|-------------------|-----------------------|
| Dimensions | 72x145x118 mm (WxHxD) |
|-------------------|-----------------------|

| | |
|---------------|---------|
| Weight | 1.04 kg |
|---------------|---------|

| | |
|-----------------|--|
| Mounting | DIN-Rail Mounting, Optional Wall Mounting Kits |
|-----------------|--|

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) |
|------------------------------|--|

| | |
|----------------------------|------------------------------|
| 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 |
|--------------|----------------|

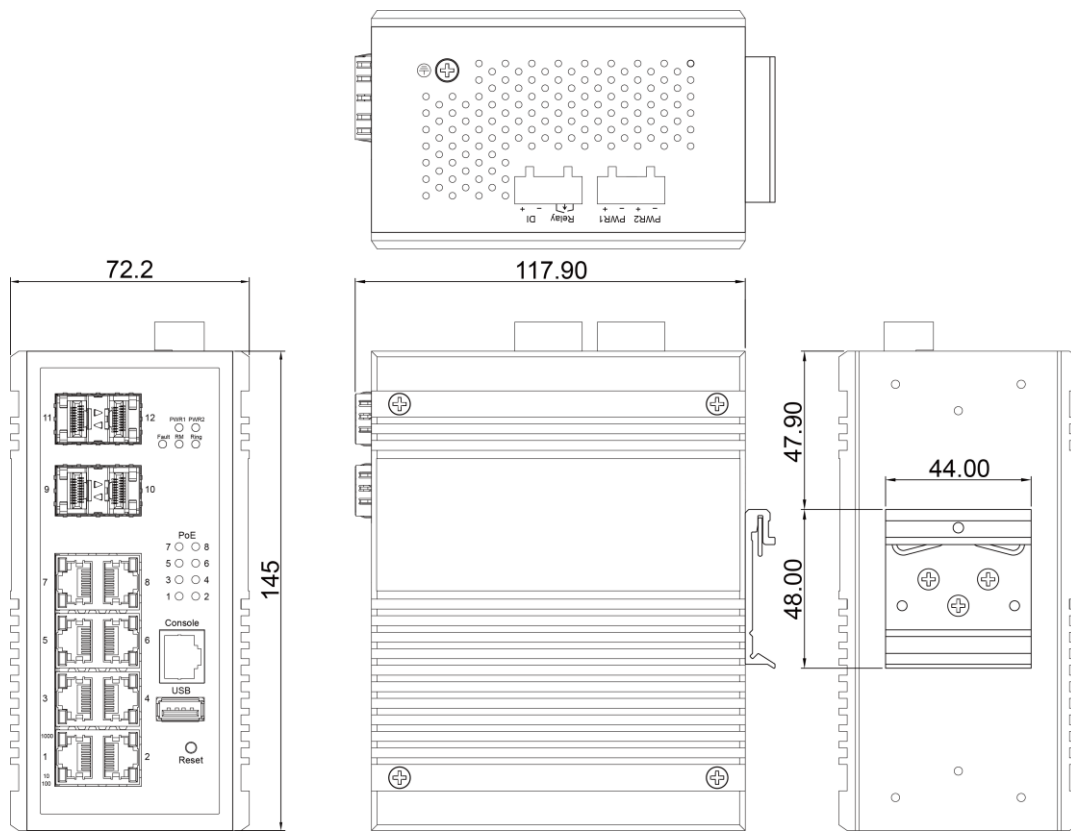
| | |
|-----------------------|--|
| Certifications | UL 60950-1/62368 (Pending) IEC 61000-6-2 IEC 61000-6-4 EN 50121-4 |
|-----------------------|--|

| | |
|-------------|----------------|
| MTBF | >100,000 hours |
|-------------|----------------|

| | |
|-----------------|---------|
| Warranty | 5 Years |
|-----------------|---------|

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-0804X | 8+4 Port Industrial Managed PoE+ Booster Ethernet Switch with 10G Uplink - 8x 10/100/1000T(x) with 30W PSE + 4x 1/10 Gigabit Ethernet SFP+ Slot - Operating Temperature: -10°C ~ 60°C (14°F ~ 140°F) |
| MT-0804X-T | 8+4 Port Industrial Managed PoE+ Booster Ethernet Switch with 10G Uplink - 8x 10/100/1000T(x) with 30W PSE + 4x 1/10 Gigabit Ethernet SFP+ Slot - Operating Temperature: -40°C ~ 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) |