ETM-0800

8-Port Industrial Managed Ethernet Switch

8*10/100Tx, dual 12-48VDC Power Input
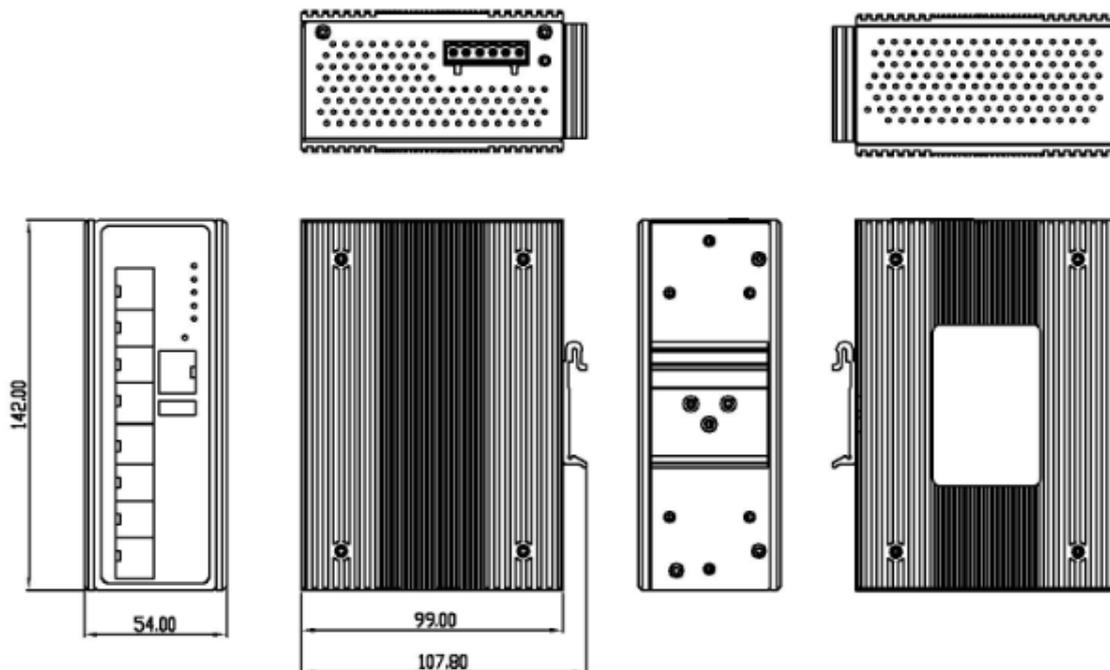
Features

- 8-port 10/100Tx Fast Ethernet
- Configuration: Web GUI, Serial Console, CLI Command
- Network Redundancy support: G.8032 ERPS,RSTP,MSTP
- Supports IGMP v1/v2, up to 256 groups
- Supports Storm Protection for Broadcast, Multicast, and Unicast frames
- Supports IEEE802.1p QoS and CoS/ToS
- Supports IEEE802.1Q VLAN, SNMP v1/v2c/v3
- System Warning setting for automatic warning through e-mail
- Redundant Power Inputs Design, 12-48VDC
- IP30 Rugged Metal Case Design
- DIN-Rail Mounting, Wall Mounting
- Operating Temperature Range - STD: -10°C ~ 65°C, EOT: -40°C ~ 85°C

Dimensions (unit = mm)

142.00

54.00

99.00

107.80

Specifications

Technology

Standards	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.1d STP (Spanning Tree Protocol) IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) ITU-T G.8032 / Y.1344 ERPS (Ethernet Ring Protection Switch) IEEE 802.1Q Virtual Local Area Network (VLAN) IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization IEEE 802.1X Network Authentication IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
Processing Type	Store and Forward
Protocol	CSMA/CD, IGMP v1/v2, SNMP v1/v2c/v3, TFTP, SNTP, SMTP, RARP, RMON, Syslog
Flow Control	IEEE 802.3x flow control, back pressure flow control

Switch Properties

Memory Buffer	4M bits
MAC Table size	8K MAC Addresses
IGMP Group	Up to 256 groups

Network Management

Network Redundancy	STP/RSTP/MSTP, Port Trunk with LACP, ERPS(< 50ms)
Configuration	Web-based, Telnet, Console, Cisco-like CLI, TFTP, SSH, SSL, SNMP v1/v2c/v3, RMON, USB
Software Features	Storm Protection for Broadcast, Multicast, and Unicast frames QoS - CoS, ToS/Diffserv mapping, SPQ/WRR queuing 802.1Q Virtual Local Area Network(VLAN) IGMP Snooping, IGMP query DHCP Client/Server/Relay with Option 82 Internet Protocol Version 6 (IPv6) Link Layer Discovery Protocol (LLDP) Port Status, Statistics, Monitoring, Security Port Mirror, LLDP, uPnP, Modbus TCP
Security Features	Static MAC address 802.1X authentication, RADIUS SNMP v3 encrypted authentication and access

Interface

RJ45 Ports	8*10/100BaseT(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
LED Indicators	Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/Link/Active
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, baud rate 115200bps,8,N,1
Configuration Backup	1*USB 2.0 (Type-A) for configuration backup/restore
Network Cable	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)

Power Requirements	
Input Voltage	12-48VDC, Redundant Input
Overload Current Protection	Present (Slow-Blow Fuse)
Power Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Power Consumption	8.7 Watts for System (Included 2.5W for USB Max.)
Relay Contact	24 VDC, 1A resistive

Protection	
CPU Watch Dog	Present

Mechanical Characteristics	
Housing	Metal, IP30 protection
Dimensions	54 x 142 x 99 mm
Weight	Unit Weight: 0.9kg, Shipping Weight: 1.3kg
Mounting	DIN-Rail Mounting, Wall Mounting

Environmental Limits	
Operating Temperature	STD: -10°C ~ 65°C; EOT: -40°C ~ 85°C
Storage Temperature	-40°C ~ 85°C
Ambient Relative Humidity	5 to 95%, (non-condensing)

Regulatory Approvals	
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 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
Corrosion Protection	IEC 60068-2-11, IEC 60068-2-52, IEC 60068-2-60 IPC-CC-830B, MIL-I-46058C, IEC 61086-2 (Class 2), UL 94, UL 746E ISO 9223 (Class C5-Very High, Class CX-Extreme) ANSI/ISA 71.04 (Class GX-Severe)
Safety	UL 61010-1, UL61010-2-201
Compliance	NEMA TS2 (ITS) – EoT version
Warranty	5 Years

Due to continuous improvement, all product specifications are subject to change without further notice.

Ordering Information

ETM-0800	8-Port Industrial Managed Ethernet Switch 8*10/100Tx
ETM-0800-T	8-Port Industrial Managed Ethernet Switch 8*10/100Tx, Extended Operating Temp.: -40° to 85° C
ETM-0800-CP	8-Port Industrial Managed Ethernet Switch 8*10/100Tx, Corrosion Protection
EMU-0800-T-CP	8-Port Industrial Managed Ethernet Switch 8*10/100Tx, EOT.: -40° to 85° C, Corrosion Protection