

# LMP-1202M-SFP Series

**12-Port Industrial Gigabit PoE+ Managed Ethernet Switch, with 8\*10/100Tx (30W/Port), 2\*10/100/1000Tx RJ45, and 2\*100/1000 SFP Slots**



## Features

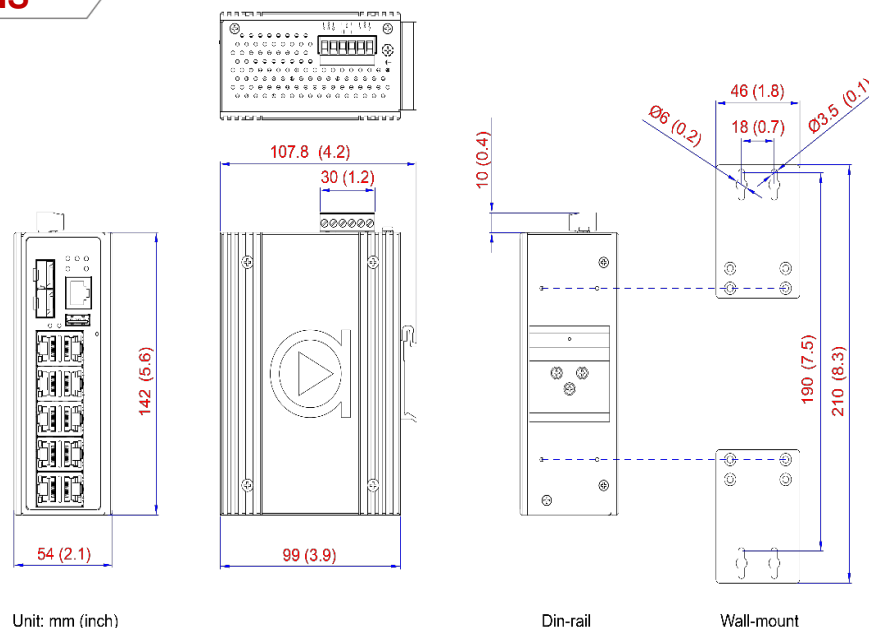
- ▶ Supports 8\*10/100Tx IEEE 802.3at/af Compliant with 30W/Port, 2\*10/100/1000Tx RJ45 & 2\*100/1000 SFP Slots for Fiber Connections
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ Configuration: Web Console, Telnet, CLI Command
- ▶ IGMP v1/v2/v3 for Multicast Traffic Filtering
- ▶ QoS (IEEE802.1p/1Q), CoS/ToS to Increase Determinism
- ▶ IEEE802.1Q VLAN for Easy Network Planning
- ▶ Enhanced Network Security with IEEE802.1X, SNMP v1/v2c/v3, HTTPS, and SSH/SSL
- ▶ Auto Warning by Exception through E-mail, Relay Output
- ▶ Support RMON Function for Efficient Network Monitoring
- ▶ Support Port Mirroring for Online Diagnostic
- ▶ 5-Year Warranty

# INTRODUCTION

**Antara's LMP-1202M-SFP series** is a 12-port industrial PoE+ managed Ethernet switch that is embedded with 8\*10/100Tx Ethernet ports that support IEEE802.3at/af for a maximum of 30W/port, 2\*10/100/1000Tx RJ45 and 2\*100/1000 dual rate SFP slots for gigabit fiber connections. The LMP-1202M-SFP series is a fully manageable Layer 2 Ethernet switch that is pre-loaded with a user-friendly web management console design. It supports the ring network redundancy function using the market's open standard ITU-T G.8032 ERPS (Ethernet Ring Protection Switch) protocol that has a <50ms network recovery time. The advanced network filtering and security functions; such as, IGMP, VLAN, QoS, SNMP, RMON, ModbusTCP, and 802.1X/HTTPS/SSH/SSL, increase determinism and improve network management for remote SCADA systems or control networks.

The LMP-1202M-SFP series is IP30 rated and DIN-rail mountable. There are also two wide operating temperature models of either a standard temperature range (STD: -10°C to 70°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides high EFT and ESD protection for industrial networking applications, such as, power/utility, water wastewater, oil/gas/mining, factory automation, security surveillance within transportation, ITS, and any other outdoor or harsh environment.

## DIMENSIONS



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## SPECIFICATIONS

| Technology           |                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards            | IEEE 802.3 10Tx Ethernet                                                                                                                                                          |
|                      | IEEE 802.3u 100Tx Fast Ethernet                                                                                                                                                   |
|                      | IEEE 802.3ab 1000Tx Gigabit Ethernet                                                                                                                                              |
|                      | IEEE 802.3z Gigabit Fiber                                                                                                                                                         |
|                      | IEEE 802.3x Flow Control for Full Duplex                                                                                                                                          |
|                      | IEEE 802.3ad for Port Trunk with LACP                                                                                                                                             |
|                      | IEEE 802.3at/af PoE (Power-over-Ethernet)                                                                                                                                         |
|                      | IEEE 802.1d STP (Spanning Tree Protocol)                                                                                                                                          |
|                      | IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)                                                                                                                                   |
|                      | IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)                                                                                                                                |
| Protocol             | ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switch) Protocol                                                                                                               |
|                      | IEEE 802.1Q for VLAN Tagging                                                                                                                                                      |
|                      | IEEE 802.1x for Network Authentication                                                                                                                                            |
|                      | IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization                                                                                                                           |
|                      | IGMPv1/v2/v3, SNMPv1/v2c/v3, TFTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP Option 66/67/82, SSH/SSL, Modbus/TCP, LLDP, IPv4/IPv6, NAT, DHCP per port, SMTP, Quick ERPS, TLS |
|                      |                                                                                                                                                                                   |
|                      |                                                                                                                                                                                   |
|                      |                                                                                                                                                                                   |
|                      |                                                                                                                                                                                   |
|                      |                                                                                                                                                                                   |
| Switch Properties    |                                                                                                                                                                                   |
| Switch Architecture  | Back-Plane (Switching Fabric): 5.6Gbps                                                                                                                                            |
| Configuration        | Web Console, Telnet, CLI                                                                                                                                                          |
| Processing Type      | Store and Forward                                                                                                                                                                 |
| Flow Control         | IEEE 802.3x for Full Duplex Mode, Back Pressure for Half Duplex Mode                                                                                                              |
| Transfer Rate        | 14,880pps for 10Base-T Ethernet<br>148,800pps for 100Base-T Fast Ethernet<br>1,488,000pps for Gigabit Ethernet                                                                    |
| Packet Buffer        | 4 Mbits                                                                                                                                                                           |
| MAC Table Size       | 8K                                                                                                                                                                                |
| VLAN Group           | 1 ~ 4094                                                                                                                                                                          |
| IGMP Group           | 1024 Groups                                                                                                                                                                       |
| Port Interface       |                                                                                                                                                                                   |
| Ethernet RJ45 Port   | 8*10/100BaseTx (PSE: 30W/Port) Auto Negotiation Speed, Full/Half Duplex Mode, and Auto MDI Connection                                                                             |
| Gigabit Ports        | 2*RJ45 w/10/100/1000Tx and 2*100/1000 SFP Slot for Fiber                                                                                                                          |
| Wavelength           | Refer to SFP Modules                                                                                                                                                              |
| RS232 Serial Console | 1*RS232 in RJ45 Connector with Console Cable, 115.2Kbps, 8,N,1                                                                                                                    |
| Configuration Backup | 1*USB 2.0                                                                                                                                                                         |

| Protection                 |                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------|
| Overload Current           | Present                                                                                                          |
| Power Reverse Polarity     | Present                                                                                                          |
| CPU Watchdog               | Present                                                                                                          |
| Network Cable              | 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 Cable; 100Base-TX: 2-Pair UTP/STP Cat. 5 Cable. EIA/TIA-568 100-ohm (100m) |
|                            | 1000BaseTX: UTP/STP Cat.5/5E Cable; EIA/TIA-568 100-ohm (100m)                                                   |
|                            |                                                                                                                  |
| Mechanical Characteristics |                                                                                                                  |
| LED Indicator              | Per Unit: Power 1 & 2 (Green), Fault (Red)<br>PoE: Feeding Power (Green)                                         |
| Housing                    | Metal IP30 Rated                                                                                                 |
| Dimension                  | 54 x 142 x 99 mm                                                                                                 |
| Weight                     | Unit: 2.4 lbs; Shipping: 3.2 lbs                                                                                 |
| Mounting                   | DIN-Rail; Wall-Mount (Optional)                                                                                  |
| Power Requirement          |                                                                                                                  |
| Input Voltage              | 48~55VDC Redundant Input                                                                                         |
| Power Connection           | 1 Removable 6-Contact Terminal Block                                                                             |
| PoE Power Output           | 25W/Port @ 48VDC Power Input;<br>30W/Port @ 51~55VDC Power Input                                                 |
| Power Consumption          | 15 Watts (No PD Included);<br>255 Watts @48~55VDC                                                                |
| Environmental Limits       |                                                                                                                  |
| Operating Temperature      | STD: -10 to 70°C<br>EOT: -40 to 75°C                                                                             |
| Storage Temperature        | -40°C ~ 85°C                                                                                                     |
| Ambient Relative Humidity  | 5 to 95%, (Non-condensing)                                                                                       |
| Regulatory Approvals       |                                                                                                                  |
| EMI                        | FCC Class A                                                                                                      |
| EMS                        | IEC61000-4-2,3,4,5,6,8<br>IEC61000-6-2,4                                                                         |
| Free Fall                  | IEC60068-2-32                                                                                                    |
| Shock                      | IEC60068-2-27                                                                                                    |
| Vibration                  | IEC60068-2-6                                                                                                     |
| Green                      | RoHS Compliant<br>FCC, CE,                                                                                       |
| Certifications             | UL61010-1, 61010-2-201<br>NEMA TS2                                                                               |
| Warranty                   | 5 Years                                                                                                          |

## ORDERING INFO

| LMP-1202M-SFP        | 12-Port Industrial PoE+ Managed Ethernet Switch with 8*10/100Tx (30W/Port), 2*10/100/1000Tx RJ45, and 2*100/1000 SFP Slots                     |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| LMP-1202M-SFP-T      | 12-Port Industrial PoE+ Managed Ethernet Switch with 8*10/100Tx (30W/Port), 2*10/100/1000Tx RJ45, and 2*100/1000 SFP Slots; EOT: -40°C to 75°C |
| Optional Accessories |                                                                                                                                                |
| SFP-M-T              | 1 Gigabit Fiber SFP Transceiver, Multi-Mode 550M / LC / 850nm, -40°C~85°C                                                                      |
| SFP-S10-T            | 1 Gigabit Fiber SFP Transceiver, Single Mode 10KM / LC / 1310nm, -40°C~85°C                                                                    |
| DIN-RACK-2U          | Din-Rail to 19" Rack Mount Adapter for all Din-Rail Mountable Products, 2U Height                                                              |

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