# LMX-1202G-SFP Series

**12-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 10*10/100/1000Tx and 2*100/1000 SFP Slots**

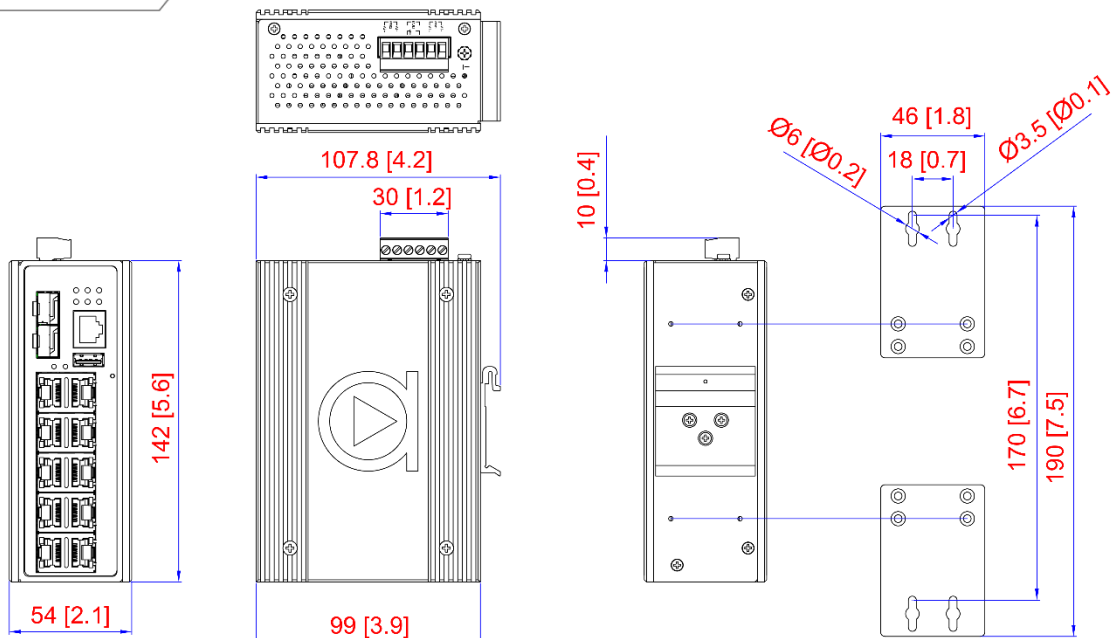## Features

► **Supports 10*10/100/1000Tx Gigabit Ethernet Ports and 2*100/1000 SFP Slots**
► **Network Redundancy Support: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)**
► **Configuration: Web Console, Telnet, CLI Command**
► **Supports IGMP v1/v2/v3, up to 1024 Groups**
► **Supports QoS (IEEE802.1p) and CoS/ToS**
► **Supports IEEE802.1Q VLAN, SNMP v1/v2c/v3**
► **Power Input: 12~48VDC in 6-Pin Terminal Block**
► **Reverse Polarity Protection**
► **IP30 Protection**
► **DIN-Rail or Wall Mountable**
► **Operating Temperature Range**
  **– STD: -10°C to 65°C, EOT: -40°C to 75°C**
► **5-Year Warranty**

## INTRODUCTION

**Antaira Technologies' LMX-1202G-SFP series** is a 12-port industrial managed gigabit managed Ethernet switch embedded with 10*10/100/1000Tx Ethernet ports and 2*100/1000Fx fiber connection. The LMX-1202G-SFP series is a fully manageable light layer 3 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 Ethernet Ring Protection Switch (ERPS) protocol that has a <50ms network recovery time. The advanced network filtering and security functions, such as IGMP, VLAN, QoS, SNMP, RMON, Modbus TCP, and 802.1X/HTTPS/SSH/SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LMX-1202G-SFP series is IP30 rated and DIN-rail mountable. There are also two wide operating temperature models for either a standard temperature range (STD: -10°C to 65°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, ITS and any other outdoor or harsh environment.

## DIMENSIONS

107.8 [4.2]
30 [1.2]
142 [5.6]
54 [2.1]
99 [3.9]
10 [0.4]
46 [1.8]
18 [0.7]
Ø6 [Ø0.2]
Ø3.5 [Ø0.1]
170 [6.7]
190 [7.5]

Unit: mm (inch)

Din-rail

Wall-mount

# SPECIFICATIONS

| Technology | |
|---|---|
| L2 Switching | Port/MAC/Protocol/IP Subnet-based VLAN, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP snooping v2/v3, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2, NAT, DHCP per port, SMTP, Quick ERPS, TLS |
| L3 Switching | DHCP option82, static routes |
| QoS | 802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode |
| Power Saving | ActiPHY, PerfectReach, IEEE 802.3az EEE power management |
| Network Redundancy | STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2 (<50ms) |
| Configuration | Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3 |
| System / Diagnostics | Dual Image Protection, PING, PING6 |

| Switch Properties | |
|---|---|
| Switch Architecture | Back-Plane (Switching Fabric): 24.0Gbps |
| Protocols | IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 server, Port Mirror, DNS client/proxy, IP based Access Filter, ICMPv6, syslog, Time Zone / Daylight Saving, NTP client, RMON, sFlow, Loop detection, Console Port, Power Lost Warning, Relay Trigger |
| Processing Type | Store and Forward |
| Flow Control | IEEE 802.3x flow control, back pressure flow control |
| Transfer Rate | 14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet |
| Memory Buffer | 4Mbits |
| Jumbo Frame | 9.6Kbytes |
| MAC Table Size | 8K |
| VLAN Group | 4095 |
| IGMP Group | 1024 |

| Port Interface | |
|---|---|
| Ethernet Port | 10*10/100/1000Base-Tx Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection |
| SFP Port | 2*100/1000 SFP slots |
| RS232 Serial Console | 1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8, N, 1 |
| LED Indicators | System: Power 1, Power 2, Fault, Master, and Ring Ethernet Ports: Speed/Link/Active Fixed Fiber: Link/Active |

| Protection | |
|---|---|
| Network Cable | 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m) |

| Mechanical Characteristics | |
|---|---|
| Housing | Metal, IP30 protection |
| Dimensions | 54 x 142 x 99 mm (W x H x D) |
| Weight | Unit: 1.98 lbs Shipping: 2.87 lbs |
| Mounting | DIN-Rail mounting, Wall mounting |

| Power Requirement | |
|---|---|
| Input Voltage | 12~48VDC Redundant Input |
| Power Connection | 1 removable 6-contact terminal block |
| Relay Contact | 24VDC, 1A resistive |
| Overload Current Protection | Present |
| Reverse Polarity Protection | Present |
| System Power Consumption | 15W |

| Environmental Limits | |
|---|---|
| Operating Temperature | STD: -10°C to 65°C EOT: -40°C to 75°C |
| Storage Temperature | -40°C to 85°C |
| Ambient Relative Humidity | 5% to 95%, (non-condensing) |

| Regulatory Approvals | |
|---|---|
| EMI | FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A |
| EMS | CE EN55024/EN61000-6-2 Class A, IEC61000-4-2,3,4,5,6,8 |
| Free Fall | IEC60068-2-32 |
| Shock | IEC60068-2-27 |
| Vibration | IEC60068-2-6 |
| Green | RoHS Compliant |
| Certifications | FCC, CE, UL 61010-1, 61010-2-201, ISA 12.12.01 Class 1 Division 2, ATEX II 3G Ex nA nC IIC T4 Gc, NEMA TS2 |
| Warranty | 5 Years |

# ORDERING INFO

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|---|---|
| LMX-1202G-SFP | 12-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 10*10/100/1000Tx and 2*100/1000 SFP Slots |
| LMX-1202G-SFP-T | 12-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 10*10/100/1000Tx and 2*100/1000 SFP Slots; EOT: -40°C to 75°C |