# LMX-1204G-SFP Series

**12-Port Industrial Gigabit Managed Ethernet Switch, with 8*10/100/1000Tx and 4*100/1000Fx, 12~48VDC Power Input**

## Features

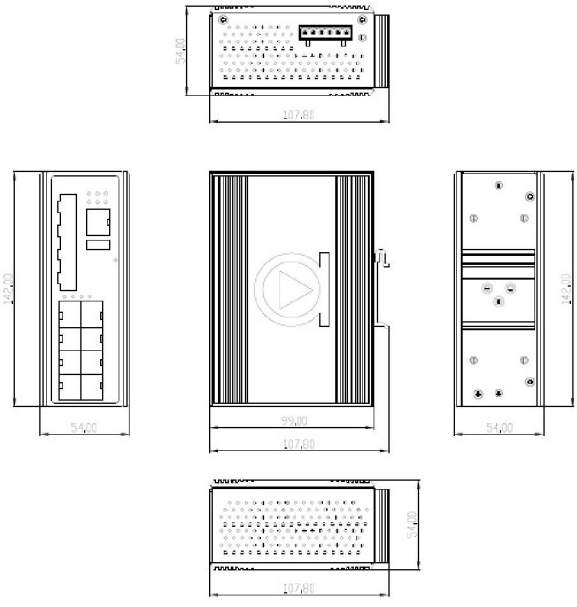
- Supports 8*10/100/1000Tx and 4*100/1000Fx Dual Rate SFP Fiber Slots
- Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- Supports IPv4/IPv6, and DHCP Option 66/67/82
- Supports Modbus/TCP Protocol for Device Management and Monitoring
- Configuration: Web Console, Telnet, CLI Command
- IGMP v1/v2 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
- Operating Temp. – STD: -10°~70°C, EOT: -40~75°C
- 5-Year Warranty

## INTRODUCTION

**Antaira Technologies' LMX-1204G-SFP series** is a 12-port industrial managed Ethernet switch that is embedded with 8*10/100/1000Tx Ethernet ports and 4*100/1000Fx SFP fiber ports that support either Single or Multi-Mode modules. The LMX-1204G-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, Modbus TCP, and 802.1X/ HTTPS/ SSH/ SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LMX-1204G-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 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



# SPECIFICATIONS

| Technology | |
|---|---|
| **Standards** | IEEE 802.3 10Tx Ethernet<br>IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3z Gigabit Fiber<br>IEEE 802.3x Flow Control for Full Duplex IEEE 802.3ad for Port Trunk with LACP IEEE 802.1d STP (Spanning Tree Protocol)<br>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) Protocol<br>IEEE 802.1Q for VLAN Tagging<br>IEEE 802.1x for Network Authentication IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization |
| **Switch Properties** | |
| **Switch Architecture** | Back-Plane (Switching Fabric): 24.0Gbps |
| **Protocol** | IGMPv1/v2, SNMPv1/v2c/v3, TFTP, SNTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP Option 66/67/82, SSH/SSL, Modbus/TCP, LLDP, IPv4/IPv6 |
| **Data Process** | Store-and-Forward |
| **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** | 8K |
| **Jumbo Frame** | 9.6K |
| **Flow Control** | IEEE 802.3x for full duplex mode, back pressure for half duplex mode |
| **VLAN Group** | 0 ~ 4094 |
| **IGMP Group** | Up to 256 Groups |
| **Port Interface** | |
| **Ethernet Port** | 8*10/100/1000Tx auto negotiation speed, Full/Half duplex mode, and auto MDI connection |
| **Fiber Port** | 4*100/1000 Dual Rate SFP Slots |
| **Wavelength** | Dependent on Fiber type and Distance |
| **RS232 Serial Console** | 1*RS232 in RJ45 connector with console cable, 115.2bps,8,N,1 |
| **Configuration Backup** | 1*USB 2.0 |

| Protection | |
|---|---|
| **Overload Current** | Present |
| **Power Reverse Polarity** | Present (the unit will not be on, if power reverse) |
| **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) |
| **Housing** | Metal IP30 rated |
| **Dimensions** | 54 x 142 x 99 mm |
| **Weight** | Unit: 2.5 lbs<br>Shipping: 3.0 lbs |
| **Mounting** | DIN-Rail; Wall-mount (Optional) |
| **Power Requirement** | |
| **Input Voltage** | 12~48VDC Redundant Input |
| **Power Connection** | 1 removable 6-contact terminal block |
| **Power Consumption** | 15 Watts |
| **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** | EN6100-4-2,3,4,5,6,8<br>EN6100-6-2,4 |
| **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, NEMA TS2 |
| **Warranty** | 5 Years |

# ORDERING INFO

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|---|---|
| **LMX-1204G-SFP** | 12-Port Industrial Gigabit Managed Ethernet Switch, w/10*10/100/1000Tx + 2*100/1000 SFP Slots |
| **LMX-1204G-SFP-T** | 12-Port Industrial Gigabit Managed Ethernet Switch, w/10*10/100/1000Tx + 2*100/1000 SFP Slots; EOT: -40° to 75°C |
| **Optional Accessories** | |
| **MDR-20-24** | 20 Watt Industrial Slim Single Output DIN-Rail Power Supply – 24VDC / 1.00 Amp |
| **MDR-40-48** | 40 Watt Industrial Slim Single Output DIN-Rail Power Supply – 48VDC / 0.83 Amp |
| **DR-75-48** | 75 Watt Industrial Single Output DIN-Rail Power Supply – 48VDC / 1.6 Amps |
| **SFP-M-T** | 1 Gigabit Fiber SFP Transceiver, Multi-Mode 550M / LC / 850nm, -40ºC~85ºC |
| **SFP-S10-T** | 1 Gigabit Fiber SFP Transceiver, Single Mode 10KM / LC / 1310nm, -40ºC~85ºC |
| **DIN-RACK-2U** | DIN-Rail to 19” Rack Mount Adapter for all DIN-Rail Mountable Products, 2U Height |