

# LMX-0804G-SFP Series

## Features

8-Port Industrial Gigabit Managed Ethernet Switches, w/4\*10/100/1000Tx , 4\*100/1000Fx; 12~48VDC Power Input



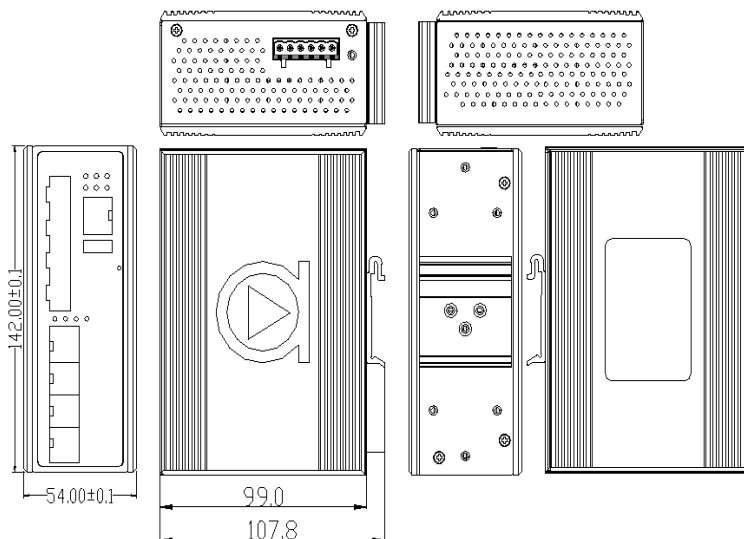
- ▶ Supports 4\*10/100/1000Tx, and 4\*100/1000Fx Dual Rate SFP Fiber Slots
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ Configuration: Web Console, 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
- ▶ Support RMON Function for Efficient Network Monitoring
- ▶ Support Port Mirroring for Online Diagnostic
- ▶ Operating Temp –STD: -10~70°C, EOT: -40~75°C
- ▶ 5-Year Warranty

## INTRODUCTION

Antaira Technologies' **LMX-0804G-SFP series** is an 8-port industrial managed Ethernet switch that is embedded with 4\*10/100/1000Tx Ethernet ports, and 4\*100/1000Fx SFP fiber ports that support either Single or Multi-Mode modules. The LMX-0804G-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, port lock, RMON, Modbus TCP, and 802.1X/ HTTPS/ SSH/ SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LMX-0804G-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

|                               |   |
|-------------------------------|---|
| <b>Technology</b>             | IEEE 802.3 10Tx Ethernet<br>IEEE 802.3u 100Tx Fast Ethernet<br>IEEE 802.3ab 1000Tx Gigabit Ethernet<br>IEEE 802.3z Gigabit Fiber<br>IEEE 802.3x Flow Control for Full Duplex<br>IEEE 802.3ad for Port Trunk with LACP<br>IEEE 802.1d STP (Spanning Tree Protocol)   |
| <b>Standards</b>              | IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)<br>IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)<br>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<br>IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization |
| <b>Switch Properties</b>      |   |
| <b>Switch Architecture</b>    | Back-Plane (Switching Fabric): 16.0Gbps   |
| <b>Protocol</b>               | IGMPv1/v2, SNMPv1/v2c/v3, TFTP, SNMP, 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  |
| <b>Data Process</b>           | Store and Forward<br>14,880pps for 10Base-T Ethernet  |
| <b>Transfer Rate</b>          | 148,800pps for 100Base-T Fast Ethernet<br>1,488,000pps for Gigabit Ethernet   |
| <b>Packet Buffer</b>          | 4 Mbits   |
| <b>MAC Table</b>              | 8K  |
| <b>Jumbo Frame</b>            | 9.6K  |
| <b>Flow Control</b>           | IEEE 802.3x for full duplex mode, back pressure for half duplex mode  |
| <b>VLAN Group</b>             | 0 ~ 4094  |
| <b>IGMP Group</b>             | Up to 256 Groups  |
| <b>Port Interface</b>         |   |
| <b>Ethernet RJ45 Port</b>     | 4*10/100/1000Tx auto negotiation speed, Full/Half duplex mode, and auto MDI connection  |
| <b>Fiber Port</b>             | 4*100/1000 Dual Rate SFP Slots  |
| <b>Wavelength</b>             | Dependent on Fiber type and Distance  |
| <b>RS232 Serial Console</b>   | 1*RS232 in RJ45 connector with console cable, 115.2bps, 8,N,1   |
| <b>Configuration Backup</b>   | 1*USB 2.0   |
| <b>Protection</b>             |   |
| <b>Overload Current</b>       | Present   |
| <b>Power Reverse Polarity</b> | Present (the unit will not be on, if power reverse)   |
| <b>Network Cable</b>          | 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable;<br>100Base-TX: 2-pair UTP/STP Cat. 5 cable. EIA/TIA-568 100-ohm (100m)<br>1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)   |

|                                   |  |
|-----------------------------------|--|
| <b>Mechanical Characteristics</b> |  |
| <b>LED Indicator</b>              | Per Unit: Power 1 & 2 (Green), Fault (Red) |
| <b>Housing</b>                    | Metal IP30 rated                           |
| <b>Dimensions</b>                 | 54 x 142 x 99 mm                           |
| <b>Weight</b>                     | Unit: 2.4 lbs<br>Shipping: 2.9 lbs         |
| <b>Mounting</b>                   | DIN-Rail; Wall-mount (optional)            |
| <b>Power Requirement</b>          |  |
| <b>Input Voltage</b>              | 12~48VDC Redundant Input                   |
| <b>Power Connection</b>           | 1 removable 6-contact terminal block       |
| <b>Power Consumption</b>          | 15 Watts                                   |
| <b>Environmental Limits</b>       |  |
| <b>Operating Temperature</b>      | STD: -10° to 70°C<br>EOT: -40° to 75°C     |
| <b>Storage Temperature</b>        | -40°C ~ 85°C                               |
| <b>Ambient Relative Humidity</b>  | 5 to 95%, (non-condensing)                 |
| <b>Regulatory Approvals</b>       |  |
| <b>EMI</b>                        | FCC Class A                                |
| <b>EMS</b>                        | EN6100-4-2,3,4,5,6,8<br>EN6100-6-2,4       |
| <b>Free Fall Shock</b>            | IEC60068-2-32<br>IEC60068-2-27             |
| <b>Vibration</b>                  | IEC60068-2-6                               |
| <b>Green</b>                      | RoHS Compliant                             |
| <b>Certifications</b>             | FCC, CE,<br>UL 61010-1, UL 61010-2-201     |
| <b>Warranty</b>                   | 5 Years                                    |

## ORDERING INFO

|                        |  |
|------------------------|--|
| <b>LMX-0804G-SFP</b>   | 8-Port Industrial Managed Ethernet Switch with 4*10/100/1000Tx + 4*100/1000Fx SFP Slots, 12~48VDC Power Input                    |
| <b>LMX-0804G-SFP-T</b> | 8-Port Industrial Managed Ethernet Switch with 4*10/100/1000Tx + 4*100/1000Fx SFP Slots, 12~48VDC Power Input; EOT: -40° to 75°C |

### Optional Accessories

|                    |   |
|--------------------|---|
| <b>MDR-60-24</b>   | 60W Industrial Din Rail Power Supply (24VDC)                                      |
| <b>MDR-60-48</b>   | 60W Industrial Din Rail Power Supply (48VDC)                                      |
| <b>SFP-M-T</b>     | 1 Gigabit Fiber SFP Transceiver, Multi-Mode 550M / LC / 850nm, -40°C~85°C         |
| <b>SFP-S10-T</b>   | 1 Gigabit Fiber SFP Transceiver, Single Mode 10KM / LC / 1310nm, -40°C~85°C       |
| <b>DIN-RACK-2U</b> | Din-Rail to 19" Rack Mount Adapter for all Din-Rail Mountable Products, 2U Height |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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