

# LMP-0804G-SFP Series

## Features

**8-Port Industrial Gigabit PoE+ Managed Ethernet Switches, w/4\*10/100/1000Tx (30W/Port), 4\*100/1000Fx, 48~55VDC Power Input**



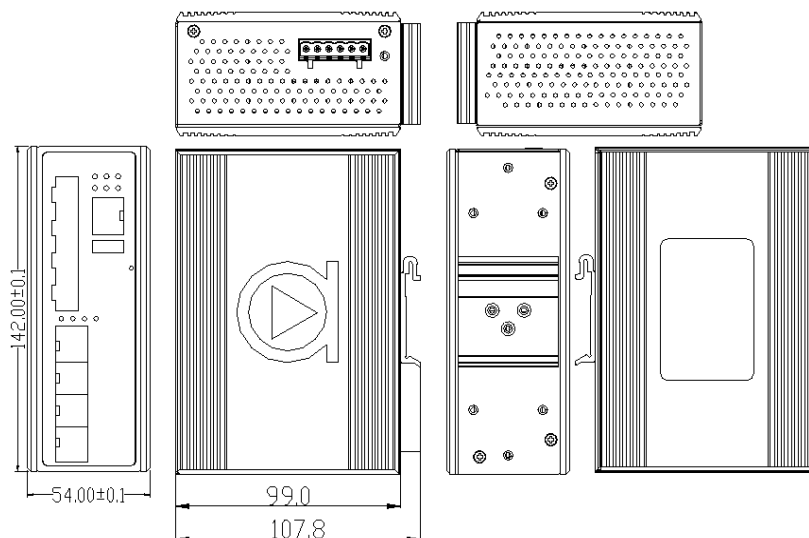
- ▶ Supports 4\*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port, and 4\*100/1000Fx SFP Fiber Slots
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ Configuration: Web Console, Telnet, CLI Command
- ▶ PoE Ping Alarm Function for PoE Ports Power Recycle
- ▶ 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
- ▶ Port Lock Function for Unauthorized Access Based on MAC Address Blocking
- ▶ 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' LMP-0804G-SFP series** is an 8-port industrial PoE+ managed Ethernet switch that is embedded with 4\*10/100/1000Tx Ethernet ports that support IEEE802.3at/af for a maximum of 30W/port, and 4\*100/1000Fx SFP fiber ports that support either Single or Multi-Mode modules. The LMP-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 LMP-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

### Technology

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)  
 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

### Standards

#### Switch Properties

|                            |   |
|----------------------------|---|
| <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 |
| <b>Data Process</b>        | Store and forward   |
| <b>Transfer Rate</b>       | 14,880pps for 10Base-T Ethernet<br>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  |

#### Port Interface

|                                |  |
|--------------------------------|--|
| <b>Ethernet RJ45 Port</b>      | 4*10/100/1000Tx (PSE: 30W/Port) 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>PoE Port Pin Assignment</b> | V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)                                      |
| <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  |

#### Protection

|                               |   |
|-------------------------------|---|
| <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) |
|----------------------|---|

### Mechanical Characteristics

|                                  |  |
|----------------------------------|--|
| <b>LED Indicator</b>             | Per Unit: Power 1 & 2 (Green), Fault (Red)<br>PoE: Feeding Power (Green) |
| <b>Housing</b>                   | Metal IP30 rated   |
| <b>Dimensions</b>                | 54 x 142 x 99 mm   |
| <b>Weight</b>                    | Unit: 2.4 lbs; Shipping: 2.9 lbs   |
| <b>Mounting</b>                  | DIN-Rail; Wall-mount (optional)  |
| <b>Power Requirement</b>         |  |
| <b>Input Voltage</b>             | 48~55VDC Redundant Input   |
| <b>Power Connection</b>          | 1 removable 6-contact terminal block                                     |
| <b>PoE Power Output</b>          | 25W @ 48VDC (per PoE port);<br>30W @ 51~55VDC (per PoE port)             |
| <b>Power Consumption</b>         | 15 Watts (no PD included);<br>135 Watts (Fully loaded)                   |
| <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</b>                 | IEC60068-2-32  |
| <b>Shock</b>                     | IEC60068-2-27  |
| <b>Vibration</b>                 | IEC60068-2-6   |
| <b>Green</b>                     | RoHS Compliant   |
| <b>Certifications</b>            | FCC, CE, UL-61010-2-201(pending)   |
| <b>Warranty</b>                  | 5 Years  |

## ORDERING INFO

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

### Optional Accessories

|                    |   |
|--------------------|---|
| <b>DR-75-48</b>    | 75W Industrial Din Rail Power Supply (48VDC)                                      |
| <b>DR-120-48</b>   | 120W Industrial Din Rail Power Supply (48VDC)                                     |
| <b>SDR-240-48</b>  | 240W 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 |