

# LMP-2004G-SFP Series

20-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 16\*10/100/1000Tx (30W/Port) and 4\*100/1000 SFP Slots



## Features

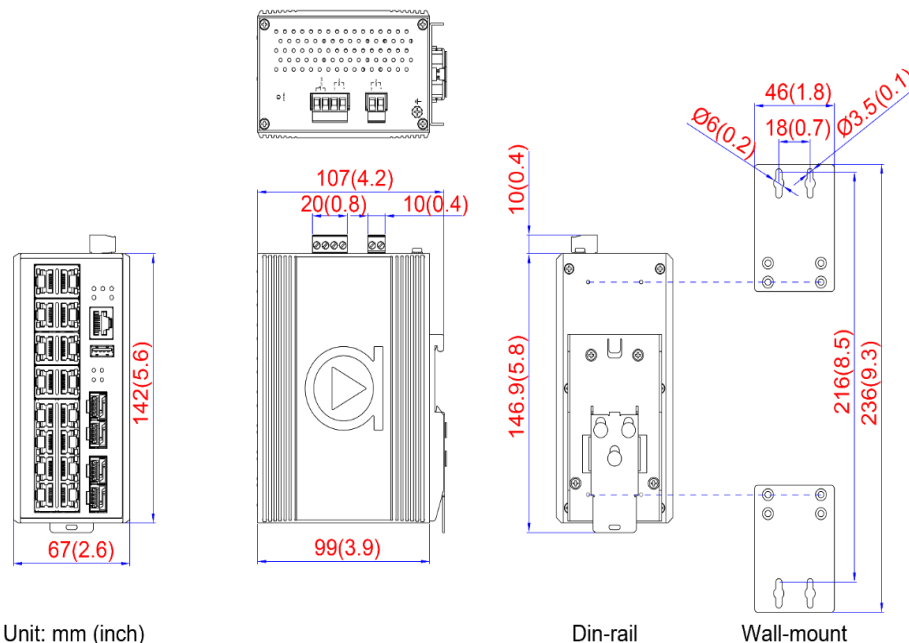
- ▶ Supports 16\*10/100/1000Tx Gigabit Ethernet with IEEE 802.3af/at Compliant PoE+
- ▶ Supports 4\*100/1000 SFP Slots
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ IGMP v1/v2 for Multicast Traffic Filtering
- ▶ System Warning Setting for Automatic Warning
- ▶ 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
- ▶ Operating Temperature Range: STD: -10°C to 70°C, EOT: -40°C to 75°C
- ▶ 5-Year Warranty

## INTRODUCTION

Antaira Technologies' LMP-2004G-SFP series is a 20-port industrial Gigabit managed Ethernet switch that is embedded with 16\*10/100/1000Tx Ethernet ports that support IEEE 802.af/at for a maximum of 30W/port and 4\*100/1000 SFP slots. The LMP-2004G-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 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-2004G-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                  |   |
|-----------------------------|---|
| <b>L2 Switching</b>         | 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  |
| <b>L3 Switching</b>         | DHCP option82, static routes  |
| <b>QoS</b>                  | 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   |
| <b>Power Saving</b>         | ActiPHY, PerfectReach, IEEE 802.3az EEE power management  |
| <b>Network Redundancy</b>   | STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2 (<50ms)   |
| <b>Configuration</b>        | Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3  |
| <b>System / Diagnostics</b> | Dual Image Protection, PING, PING6  |
| Switch Properties           |   |
| <b>Switch Architecture</b>  | Back-Plane (Switching Fabric): 40.0Gbps IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 client, DHCP 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 |
| <b>Protocols</b>            |   |
| <b>Processing Type</b>      | Store and Forward   |
| <b>Flow Control</b>         | IEEE 802.3x for full duplex mode, back pressure for half duplex mode  |
| <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>        | 4Mbits  |
| <b>Jumbo Frame</b>          | 9.6Kbytes   |
| <b>MAC Table Size</b>       | 8K  |
| <b>VLAN Group</b>           | 4095  |
| <b>IGMP Group</b>           | 1024  |
| Port Interface              |   |
| <b>Ethernet Port</b>        | 16*10/100/1000BaseTx (30W/Port)<br>Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection   |
| <b>Fiber Port</b>           | 4*100/1000 SFP Slots  |
| <b>Wavelength</b>           | Depends on SFP modules  |
| <b>RS232 Serial Console</b> | 1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8, N, 1  |
| <b>Configuration Backup</b> | 1*USB 2.0   |

| Protection                         |   |
|------------------------------------|---|
| <b>Overload Current Protection</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; EIA/TIA-568 100-ohm (100m)<br>100Base-TX: 2-pair UTP/STP Cat. 5 cable; EIA/TIA-568 100-ohm (100m)<br>1000BaseTX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m) |
| Mechanical Characteristics         |   |
| <b>Housing</b>                     | Metal, IP30 rated   |
| <b>Dimension</b>                   | 67 x 142 x 99 mm (W x H x D)  |
| <b>Weight</b>                      | Unit: 2.65 lbs<br>Shipping: 3.09 lbs  |
| <b>Mounting</b>                    | DIN-Rail mounting; Wall mounting  |
| Power Requirement                  |   |
| <b>Input Voltage</b>               | 48~55VDC Redundant Input  |
| <b>Power Connection</b>            | 1 removable 4-contact and 2-contact terminal block  |
| <b>PoE Pin Out</b>                 | V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)   |
| <b>System Power Consumption</b>    | 18.4 Watts  |
| <b>PoE Power Budget</b>            | 240Watts  |
| <b>Relay Contact</b>               | 24VDC, 1A resistive   |
| Environmental Limits               |   |
| <b>Operating Temperature</b>       | STD: -10°C to 70°C<br>EOT: -40°C to 75°C  |
| <b>Storage Temperature</b>         | -40~-85°C   |
| <b>Ambient Relative Humidity</b>   | 5 to 95%, (non-condensing)  |
| Regulatory Approvals               |   |
| <b>EMI</b>                         | FCC Part 15 Subpart B Class A<br>CE EN55032/EN61000-6-4 Class A   |
| <b>EMS</b>                         | CE EN55035/EN61000-6-2<br>EN61000-4-2,3,4,5,6,8   |
| <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 61010-1, 61010-2-201, NEMA TS2  |
| <b>Substation</b>                  | IEC 61850-3 Edition 2.0   |
| <b>Warranty</b>                    | 5 Years   |

## ORDERING INFO

|                        |   |
|------------------------|---|
| <b>LMP-2004G-SFP</b>   | 20-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 16*10/100/1000Tx Ports (30W/Port) and 4*100/1000 SFP Slots                     |
| <b>LMP-2004G-SFP-T</b> | 20-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 16*10/100/1000Tx Ports (30W/Port) and 4*100/1000 SFP Slots; EOT: -40°C to 75°C |

## 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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