

LMP-1002G-SFP Series

Features

10-Port Industrial Gigabit PoE+ Managed Ethernet Switches, w/8*10/100/1000Tx (30W/Port), and 2*100/1000 SFP Slots



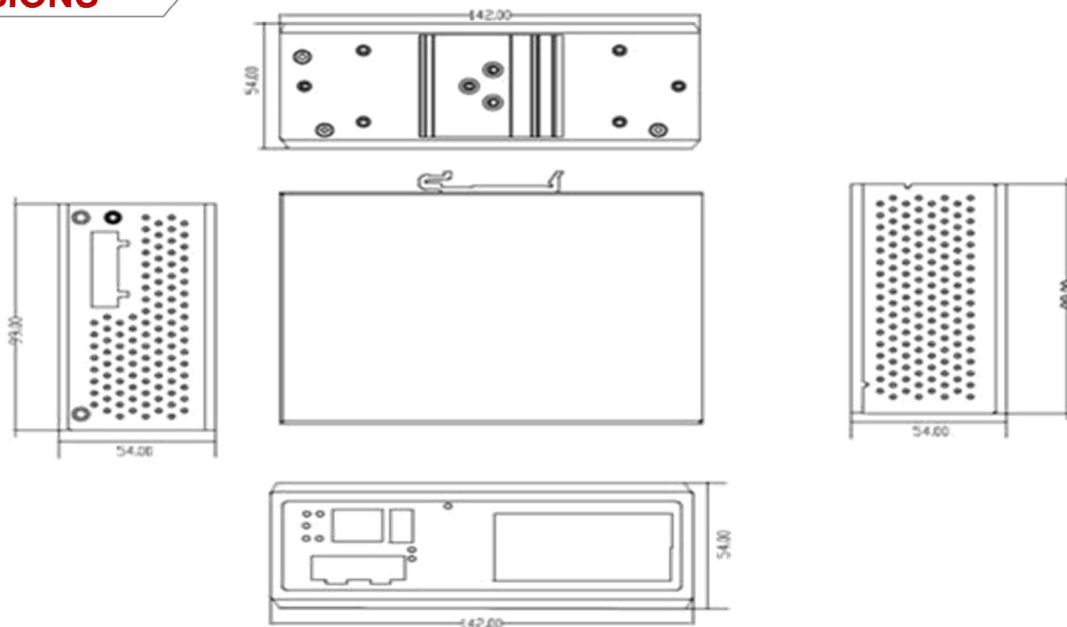
- ▶ Supports 8*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port, and 2*100/1000 SFP Slots for Fiber Connections
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP protocol for Device Management and 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
- ▶ Port Lock Function for Unauthorized Access Based on MAC Address Blocking
- ▶ Auto Warning by Exception through E-mail, Relay Output
- ▶ Support RMON Function for Efficient Network Monitoring
- ▶ Support Port Mirroring for Online Diagnostic
- ▶ 5-Year Warranty

INTRODUCTION

Antaira's LMP-1002G-SFP series is a 10-port industrial Gigabit PoE+ managed Ethernet switch embedded with 8*10/100/1000Tx Ethernet ports that support IEEE802.3at/af for a maximum of 30W/port, and 2*100/1000 dual rate SFP slots for Gigabit fiber connections. It 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, ModbusTCP, and 802.1X/HTTPS/SSH/SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LMP-1002G-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, ITS and any other outdoor or harsh environment.

DIMENSIONS



SPECIFICATIONS

| | |
|-----------------------------|---|
| Technology | |
| Standards | 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) |
| 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 |
| | 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 |
| Switch Properties | |
| Switch Architecture | Back-Plane (Switching Fabric): 10.0Gbps |
| Configuration | Web Console, Telnet, CLI |
| Processing Type | Store and Forward |
| Flow Control | IEEE 802.3x for full duplex mode, back pressure for half duplex mode |
| Transfer Rate | 14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet |
| Packet Buffer | 4 Mbits |
| Jumbo Frame | 9.6K |
| MAC Table Size | 8K |
| VLAN Group | 1 ~ 4094 |
| IGMP Group | Up to 256 Groups |
| Port Interface | |
| Ethernet RJ45 Port | 8*10/100/1000BaseTx (PSE: 30W/Port) auto negotiation speed, Full/Half duplex mode, and auto MDI connection |
| Fiber Port | 2*100/1000 SFP Slot For Fiber |
| Wavelength | Refer to SFP Modules |
| RS232 Serial Console | 1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8,N,1 |
| Configuration Backup | 1*USB 2.0 |

| | |
|-----------------------------------|--|
| Protection | |
| Overload Current | Present |
| Power Reverse Polarity | Present |
| CPU Watchdog | Present |
| 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) PoE: Feeding Power (Green) |
| Housing | Metal IP30 rated |
| Dimension | 54 x 142 x 99 mm |
| Weight | Unit: 2.4 lbs; Shipping: 3.2 lbs |
| Mounting | DIN-Rail; Wall-Mount (optional) |
| Power Requirement | |
| Input Voltage | 48~55VDC Redundant Input |
| Power Connection | 1 removable 6-contact terminal block |
| PoE Power Output | 25W/port @ 48VDC power input; |
| | 30W/port @ 51~55VDC power input |
| Power Consumption | 15 Watts (no PD included); |
| | 215 Watts @48VDC; |
| | 255 Watts @51~55VDC |
| Environmental Limits | |
| Operating Temperature | STD: -10 to 70°C 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 | IEC61000-4-2,3,4,5,6,8 IEC61000-6-2,4 |
| Free Fall | IEC60068-2-32 |
| Shock | IEC60068-2-27 |
| Vibration | IEC60068-2-6 |
| Green | RoHS Compliant |
| Certifications | FCC, CE, UL 508 (Pending) |
| Warranty | 5 Years |

ORDERING INFO

| | |
|------------------------|---|
| LMP-1002G-SFP | 10-Port Industrial Gigabit PoE+ Managed Ethernet Switch with 8*10/100/1000Tx (30W/Port), 2*100/1000 SFP Slots |
| LMP-1002G-SFP-T | 10-Port Industrial Gigabit PoE+ Managed Ethernet Switch with 8*10/100/1000Tx (30W/Port), 2*100/1000 SFP Slots; EOT: -40° to 75°C |

Optional Accessories

| | |
|--------------------|---|
| MDR-60-48 | 60W Industrial Din Rail Power Supply (48VDC) |
| DR-75-48 | 75W Industrial Din Rail Power Supply (48VDC) |
| DR-120-48 | 120W Industrial Din Rail Power Supply (48VDC) |
| SDR-240-48 | 240W Industrial Din Rail Power Supply (48VDC) |
| SFP-M-T | 1 Gigabit Fiber SFP Transceiver, Multi-Mode 550M / LC / 850nm, -40°C~85°C |
| SFP-S10-T | 1 Gigabit Fiber SFP Transceiver, Single Mode 10KM / LC / 1310nm, -40°C~85°C |
| DIN-RACK-2U | Din-Rail to 19" Rack Mount Adapter for all Din-Rail Mountable Products, 2U Height |