

# 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**



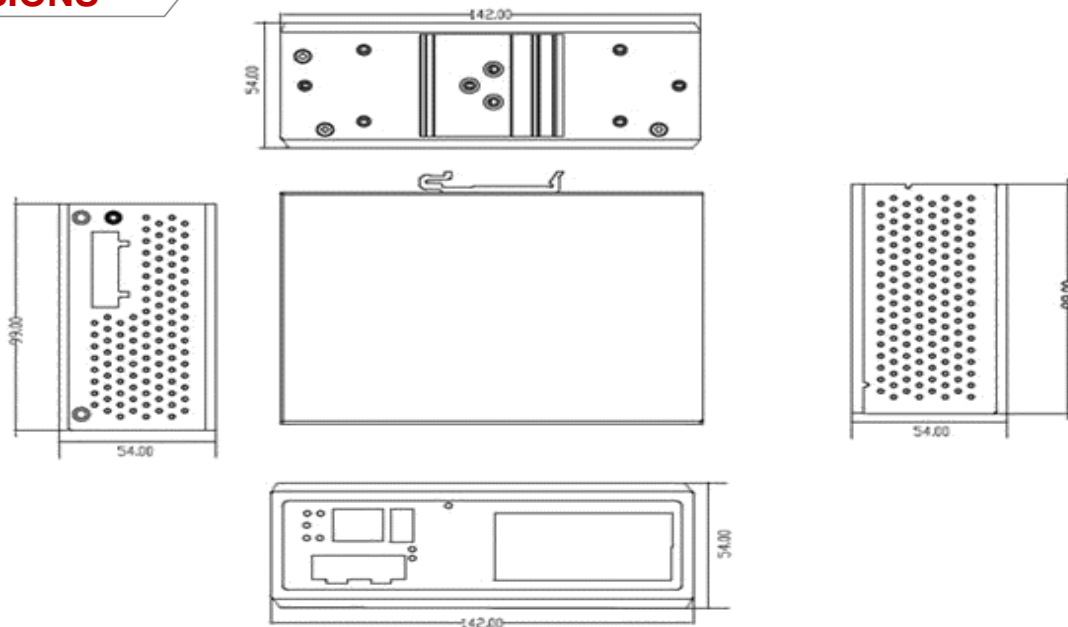
- ▶ Supports 8\*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port, and 2\*100/1000 SFP Slots for Fiber Connections
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP protocol for Device Management and 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

<b>Technology</b>	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
<b>Standards</b>	
<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>Switch Properties</b>	
<b>Switch Architecture</b>	Back-Plane (Switching Fabric): 10.0Gbps
<b>Configuration</b>	Web Console, Telnet, CLI
<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 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet
<b>Packet Buffer</b>	4 Mbits
<b>Jumbo Frame</b>	9.6K
<b>MAC Table Size</b>	8K
<b>VLAN Group</b>	1 ~ 4094
<b>IGMP Group</b>	Up to 256 Groups
<b>Port Interface</b>	
<b>Ethernet RJ45 Port</b>	8*10/100/1000BaseTx (PSE: 30W/Port) auto negotiation speed, Full/Half duplex mode, and auto MDI connection
<b>Fiber Port</b>	2*100/1000 SFP Slot For Fiber
<b>Wavelength</b>	Refer to 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

<b>Protection</b>	
<b>Overload Current</b>	Present
<b>Power Reverse Polarity</b>	Present
<b>CPU Watchdog</b>	Present
<b>Network Cable</b>	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)
<b>Mechanical Characteristics</b>	
<b>LED Indicator</b>	Per Unit: Power 1 & 2 (Green), Fault (Red) PoE: Feeding Power (Green)
<b>Housing</b>	Metal IP30 rated
<b>Dimension</b>	54 x 142 x 99 mm
<b>Weight</b>	Unit: 2.4 lbs; Shipping: 3.2 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/port @ 48VDC power input; 30W/port @ 51~55VDC power input
<b>Power Consumption</b>	15 Watts (no PD included); 215 Watts @24VDC; 255 Watts @48~55VDC
<b>Environmental Limits</b>	
<b>Operating Temperature</b>	STD: -10 to 70°C 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>	IEC61000-4-2,3,4,5,6,8 IEC61000-6-2,4
<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 508 (Pending)
<b>Warranty</b>	5 Years

## ORDERING INFO

<b>LMP-1002G-SFP</b>	10-Port Industrial Gigabit PoE+ Managed Ethernet Switch with 8*10/100/1000Tx (30W/Port), 2*100/1000 SFP Slots
<b>LMP-1002G-SFP-T</b>	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

<b>MDR-60-48</b>	60W Industrial Din Rail Power Supply (48VDC)
<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