

# LMP-1002G-SFP-24 Series

10-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8\*10/100/1000Tx (30W/Port) + 2\*100/1000 SFP Slots; 12~36VDC Input



## Features

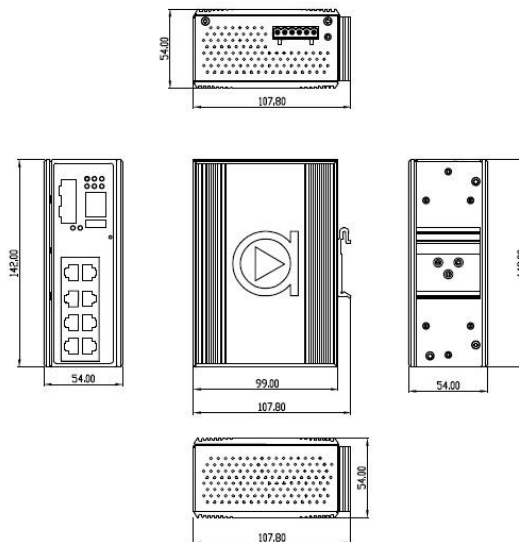
- ▶ Supports 8\*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port and 2\*100/1000 SFP Slots for Fiber Connections
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP protocol for Device Management and 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
- ▶ Auto Warning by Exception through E-mail, Relay Output
- ▶ Support RMON Function for Efficient Network Monitoring
- ▶ Support Port Mirroring for Online Diagnostic
- ▶ Low Power Input 12~36VDC (w/Voltage Booster)
- ▶ 5-Year Warranty

## INTRODUCTION

Antaira's LMP-1002G-SFP-24 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, RMON, Modbus TCP, and 802.1X/HTTPS/SSH/SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LMP-1002G-SFP-24 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). This series supports a dual power input having a low voltage range (12~36VDC) and a built-in voltage booster allowing the unit to give a full 48VDC PoE power for any mobile PoE application or any low voltage power sourcing environment. 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>	
	IGMPv1/v2, SNMPv1/v2c/v3, TFTP, SNTF, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP Option 66/67/82, SSH/SSL, Modbus/TCP, LLDP, IPv4/IPv6
<b>Protocol</b>	
<b>Switch Properties</b>	
<b>Switch Architecture</b>	Back-Plane (Switching Fabric): 20.0Gbps
<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 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 Slots 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>Dimensions</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>	12~36VDC Redundant Input
<b>Power Connection</b>	1 removable 6-contact terminal block
<b>PoE Power Output</b>	Maximum 30W/port 15 Watts (no PD included)
<b>Power Consumption</b>	145 Watts @ 12VDC 200 Watts @ 24VDC
<b>Environmental Limits</b>	
<b>Operating Temperature</b>	STD: -10° to 70°C EOT: -40° to 75°C
<b>Storage Temperature</b>	-40°~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 61010-1, 61010-2-201, NEMA TS2, ATEX
<b>Warranty</b>	5 Years

## ORDERING INFO

<b>LMP-1002G-SFP-24</b>	10-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) and 2*100/1000 SFP Slots; 12~36VDC Input
<b>LMP-1002G-SFP-24-T</b>	10-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) and 2*100/1000 SFP Slots; 12~36VDC Input; EOT: -40° to 75°C

### Optional Accessories

<b>MDR-60-24</b>	60 Watt Industrial Slim Single Output DIN-Rail Power Supply – 24VDC / 2.50 Amps
<b>DR-75-24</b>	75 Watt Industrial Single Output DIN-Rail Power Supply – 24VDC / 3.2 Amps
<b>DR-120-24</b>	120 Watt Industrial Single Output DIN-Rail Power Supply – 24VDC / 5.0 Amps
<b>SDR-240-24</b>	240 Watt Industrial Single Output DIN-Rail Power Supply – 24VDC / 10.0 Amps
<b>SFP-M-T</b>	1 Gigabit Fiber SFP Transceiver, Multi Mode 550M / LC / 850nm, -40°~85°C

**SFP-S10-T**

1 Gigabit Fiber SFP Transceiver, Single Mode 10KM / LC / 1310nm, -40°~85°C

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**DIN-RACK-2U**

DIN-Rail to 19" Rack Mount Adapter for all DIN-Rail Mountable Products, 2U Height

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