

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; 12~55VDC Input



Features

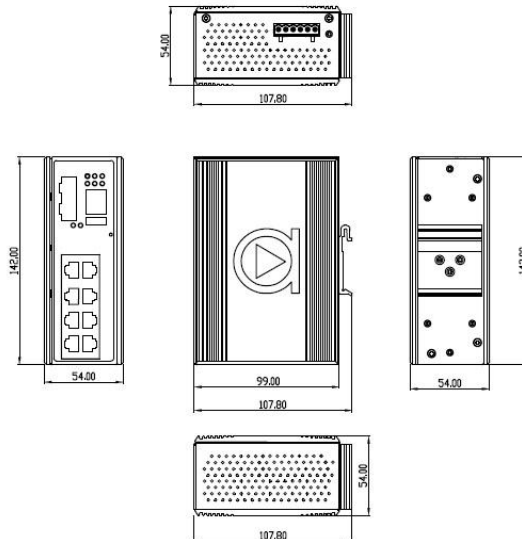
- ▶ Supports 8*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port and 2*100/1000 SFP Slots for Fiber Connections
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP protocol for Device Management and 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 12~55VDC (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 (12~55VDC) 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

Technology		Protection	
Standards	IEEE 802.3 10Tx Ethernet	Overload Current	Present
	IEEE 802.3u 100Tx Fast Ethernet	Power Reverse Polarity	Present
	IEEE 802.3ab 1000Tx Gigabit Ethernet	CPU Watchdog	Present
	IEEE 802.3z Gigabit Fiber	Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable
	IEEE 802.3x Flow Control for Full Duplex		100Base-TX: 2-pair UTP/STP Cat. 5 cable. EIA/TIA-568 100-ohm (100m)
	IEEE 802.3ad for Port Trunk with LACP		1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
	IEEE 802.3at/af PoE (Power-over-Ethernet)	Mechanical Characteristics	
	IEEE 802.1d STP (Spanning Tree Protocol)	LED Indicator	Per Unit: Power 1 & 2 (Green), Fault (Red) PoE: Feeding Power (Green)
	IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)	Housing	Metal, IP30 rated
	IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)	Dimensions	54 x 142 x 99 mm
Protocol	ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switch) Protocol	Weight	Unit: 2.4 lbs Shipping: 3.2 lbs
	IEEE 802.1Q for VLAN Tagging	Mounting	DIN-Rail; Wall-mount (Optional)
Protocol	IEEE 802.1x for Network Authentication	Power Requirement	
	IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization	Input Voltage	12~55VDC Redundant Input
Switch Properties		Power Connection	1 removable 6-contact terminal block
Switch Architecture	Back-Plane (Switching Fabric): 20.0Gbps	PoE Power Output	Maximum 30W/port
Configuration	Web Console, Telnet, CLI	Power Consumption	Maximum 15 W full loading
Processing Type	Store-and-Forward	Max. PoE Power Budget	90W@12VDC, 240W@48-55VDC
Flow Control	IEEE 802.3x for full duplex mode, back pressure for half duplex mode	Environmental Limits	
Transfer Rate	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet	Operating Temperature	STD: -10° to 70°C EOT: -40° to 75°C
Packet Buffer	4 Mbits	Storage Temperature	-40°~85°C
Jumbo Frame	9.6K	Ambient Relative Humidity	5 to 95%, (Non-condensing)
MAC Table Size	8K	Regulatory Approvals	
VLAN Group	1 ~ 4094	EMI	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
IGMP Group	Up to 256 Groups	EMS	CE EN55024/EN 61000-6-2 IEC61000-4-2,3,4,5,6,8
Port Interface		Free Fall	IEC60068-2-32
Ethernet Port	8*10/100/1000BaseTx (PSE: 30W/Port) auto negotiation speed, Full/Half duplex mode, and auto MDI connection	Shock	IEC60068-2-27
Fiber Port	2*100/1000 SFP Slots for Fiber	Vibration	IEC60068-2-6
Wavelength	Refer to SFP Modules	Green	RoHS Compliant
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8,N,1	Certifications	FCC, CE, UL 61010-1, 61010-2-201, Class 1 Division 2 NEMA TS2, ATEX
Configuration Backup	1*USB 2.0	Warranty	5 Years

ORDERING INFO

LMP-1002G-SFP-24	10-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) and 2*100/1000 SFP Slots; 12~55VDC Input
LMP-1002G-SFP-24-T	10-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/8*10/100/1000Tx (30W/Port) and 2*100/1000 SFP Slots; 12~55VDC Input; EOT: -40° to 75° C

Optional Accessories

MDR-60-24	60 Watt Industrial Slim Single Output DIN-Rail Power Supply – 24VDC / 2.50 Amps
DR-75-24	75 Watt Industrial Single Output DIN-Rail Power Supply – 24VDC / 3.2 Amps
DR-120-24	120 Watt Industrial Single Output DIN-Rail Power Supply – 24VDC / 5.0 Amps
SDR-240-24	240 Watt Industrial Single Output DIN-Rail Power Supply – 24VDC / 10.0 Amps
SFP-M-T	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

DIN-RACK-2U

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