antaira®

LMP-1002G-10G-SFP

10-Port Industrial PoE+ Light Layer 3 Gigabit Managed Ethernet Switch, with 8*10/100/1000Tx (30W/Port) and 2*1G/10G SFP+ Slots
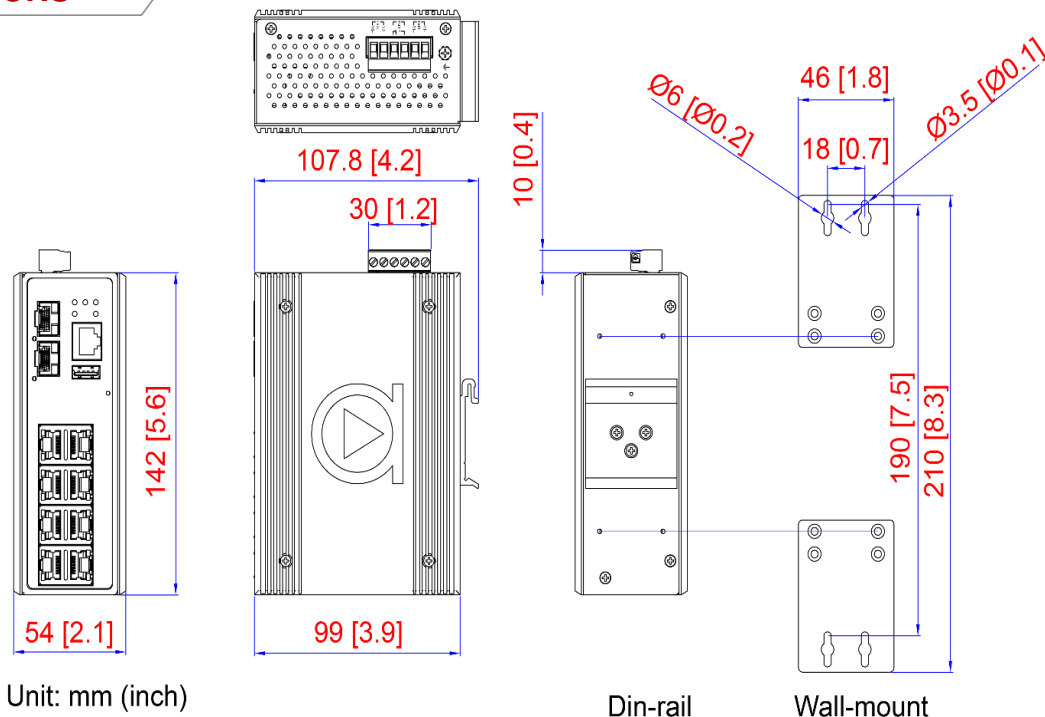
Features

▶ **Supports 8*10/100/1000Tx IEEE 802.3af/at Compliant with 30W/Port**
▶ **Supports 2*1G/10G 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**
▶ **IEEE802.1Q VLAN for Easy Network Planning**
▶ **Power Input: 48~55VDC in 6-Pin Terminal Block**
▶ **Reverse Polarity Protection**
▶ **IP30 Protection**
▶ **DIN-Rail or Wall Mountable**
▶ **Operating Temperature Range - STD: -40° to 60°C**
▶ **5-Year Warranty**

INTRODUCTION

Antaira Technologies' LMP-1002G-10G-SFP is a 10-port industrial gigabit managed Ethernet switch that is embedded with eight PoE+ gigabit Ethernet ports and two dual rates (1G/10G) SFP+ slots for fiber connection. This is a fully manageable industrial Ethernet switch pre-loaded with standard light layer 3 network management software. It supports jumbo frame and wide bandwidth for data transmission and has sufficient port counts for edge-level connectivity solutions.

The LMP-1002G-10G-SFP has a compact form factor design with an IP30 rating, DIN-rail mounting, and standard operating temperature support from -40°C to 60°C. It also provides high EFT and ESD protection for any industrial networking application within factory automation, ITS, power/utility, water/wastewater, or any other outdoor or harsh environment. The two 10 gig SFP+ ports deliver high bandwidth support to applications requiring greater speeds of connectivity.

DIMENSIONS

Unit: mm (inch)

Din-rail   Wall-mount

SPECIFICATIONS

Technology

L2 Switching	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
L3 Switching	DHCP option82, static routes
QoS	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
Power Saving	ActiPHY, PerfectReach
Network Redundancy	STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2 (<50ms)
Configuration	Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3
System / Diagnostics	Dual Image Protection, PING, PING6

Switch Properties

Switch Architecture	Back-Plane (Switching Fabric): 56Gbps
Protocols	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
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 Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port 14,880,000pps for 10 Gigabit Ethernet Port
Packet Buffer	8Mbits
Jumbo Frame	9.6Kbytes
MAC Table Size	16K
VLAN Group	4095
IGMP Group	1024

Port Interface

Ethernet Port	8*10/100/1000BaseTx (30W/Port) Auto Negotiation Speed, Full/Half duplex mode, and auto MDI/MDI-X connection
SFP Port	2*1G/10G SFP+ slots
Wavelength	Depends on SFP modules
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, baud rate 115.2Kbps, 8, N, 1

Protection

Overload Current Protection	Present
Reverse Polarity Protection	Present
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)

Mechanical Characteristics

Housing	Metal, IP30 Protection
Dimensions	54 x 142 x 99 mm (W x H x D)
Weight	Unit: 2.29lbs Shipping: 2.95lbs
Mounting	DIN-Rail Mounting, Wall Mounting

Power Requirement

Input Voltage	48-55VDC Redundant Power Inputs
Power Connection	1 Removable 6-Contact Terminal Block
Relay Contact	24VDC, 1A resistive
PoE Pin Assignment	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, Mode A)
PoE Power Budget	240W, 48-55VDC
System Power Consumption	15.5W

Environmental Limits

Operating Temperature	STD: -40°C to 60°C
Storage Temperature	-40°C to 85°C
Ambient Relative Humidity	5% to 95%, (non-condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2 Class A: IEC61000-4-2,3,4,5,6,8
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE, UL 61010-1, 61010-2-201
Warranty	5 Years

ORDERING INFO

LMP-1002G-10G-SFP	10-Port Industrial PoE+ Light Layer 3 Gigabit Managed Ethernet Switch, with 8*10/100/1000Tx (30W/Port) and 2*1G/10G SFP+ Slots

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