LMP-1204G-SFP-bt-24 Series

12-Port Industrial Gigabit IEEE 802.3bt PoE++ Light Layer 3 Managed Ethernet Switch, with 4*10/100/1000Tx (90W/Port), 4*10/100/1000Tx (30W/Port), and 4*100/1000 SFP Slots; 12~55VDC Power Input



Features

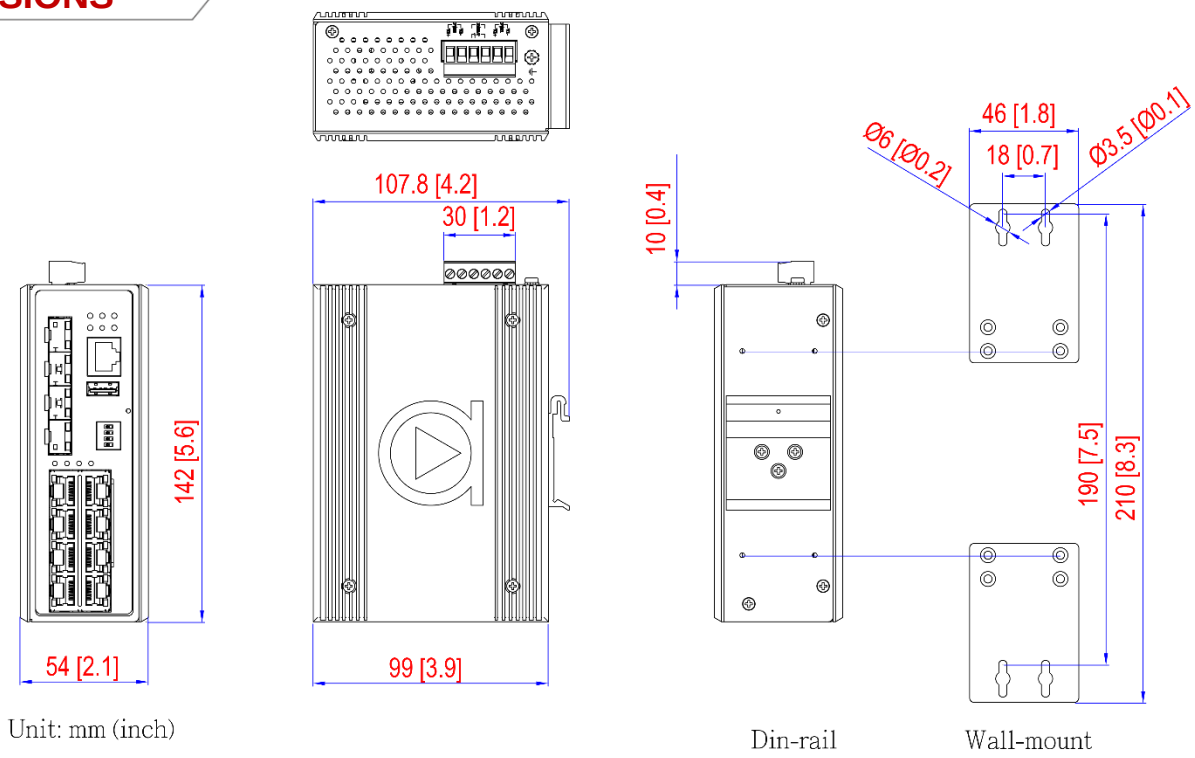
- **Supports 4*10/100/1000Tx IEEE 802.3bt Compliant with 90W/Port, 4*10/100/1000Tx IEEE 802.3af/at Compliant with 30W/Port, and 4*100/1000 SFP Slots**
- **Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS v1/v2 (Recovery Time <50ms)**
- **Configuration: Web Console, Telnet, CLI Command**
- **Supports IGMP v1/v2/v3, up to 1024 Groups**
- **Supports QoS (IEEE 802.1p) and CoS/ToS**
- **Supports IEEE 802.1Q VLAN, SNMP v1/v2c**
- **Power Input: 12~55VDC in 6-Pin Terminal Block**
- **Reverse Polarity Protection**
- **IP30 Protection**
- **DIN-Rail or Wall Mountable**
- **Operating Temperature Range – STD: -10°C to 65°C, EOT: -40°C to 75°C**
- **5-Year Warranty**

INTRODUCTION

Antaira Technologies' LMP-1204G-SFP-bt-24 series is a 12-port industrial Gigabit PoE++ managed Ethernet switch embedded with 4*10/100/1000Tx Ethernet ports that support IEEE 802.3bt for a maximum of 90W/port, 4*10/100/1000Tx Ethernet ports with IEEE 802.3af/at support for a maximum of 30W/Port, and 4*100/1000 dual rate SFP slots for fiber connection. The LMP-1204G-SFP-bt-24 series is a fully manageable Light Layer 3 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 Ethernet Ring Protection Switch (ERPS) 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-1204G-SFP-bt-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 65°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



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 v1/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, IEEE 802.3az EEE power management
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): 24Gbps
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, USB configuration backup/restore, Power lost warning, relay trigger
Priority Queues	8
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
Packet Buffer	4Mbits
Jumbo Frame	9.6Kbytes
MAC Table Size	8K
VLAN Group	4095
IGMP Group	1024
Port Interface	
Ethernet Port	8*10/100/1000Base-TX (90W/Port for Port 1~4, 30W/Port for Port 5~8), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
SFP Port	4*100/1000 SFP Slots
RS232 Serial Console	1*RS232 in RJ45
LED Indicators	System: Power 1, Power 2, Master (M), Ring (R), Status, PoE Load (P/L) Ethernet ports: Speed/Link/Active PoE: On-connected to PD devices SFP: Link/Active

Protection	
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 99mm (W x H x D)
Weight	Unit: 2.53 lbs Shipping: 3.33 lbs
Mounting	DIN-Rail Mounting, Wall Mounting
Power Requirement	
Input Voltage	12-55VDC Redundant Power Inputs (53~55VDC power input for bt PoE PSE)
Power Connection	Removable 6-Contact Terminal Block
Relay Contact	24VDC, 1A resistive
PoE Pin Assignment	V-, V-, V+, V+ for pin 1, 2, 3, 6; V+, V+, V-, V- for pin 4, 5, 7, 8 *Support Modes: Mode A, Mode B, 4-Pair Mode
Overload Current Protection	Present
Reverse Polarity Protection	Present
System Power Consumption	12.5W
PoE Power Budget	90W @12VDC 180W @24VDC 240W @36~55VDC
Environmental Limits	
Operating Temperature	STD: -10°C to 65°C EOT: -40°C to 75°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, UL 61010-2-201, NEMA TS2
Warranty	5 Years

ORDERING INFO

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LMP-1204G-SFP-bt-24-T	12-Port Industrial Gigabit IEEE 802.3bt PoE++ Light Layer 3 Managed Ethernet Switch, with 4*10/100/1000Tx (90W/Port), 4*10/100/1000Tx (30W/Port), and 4*100/1000 SFP Slots; 12~55VDC Power Input; EOT: -40°C to 75°C