

# LMX-1204G-SFP Series

12-Port Industrial Gigabit Managed Ethernet Switch, with 8\*10/100/1000Tx and 4\*100/1000Fx, 12~48VDC Power Input



## Features

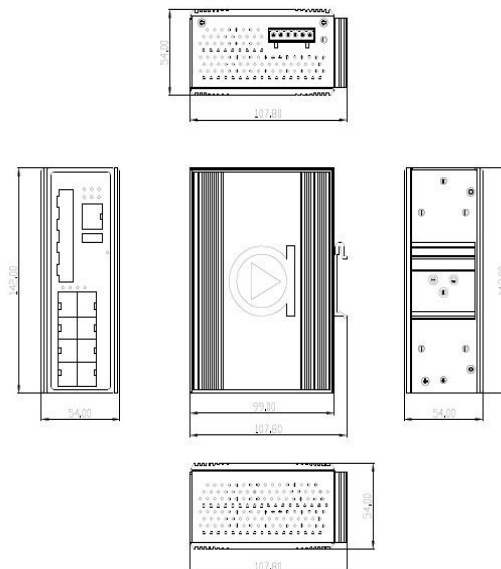
- ▶ Supports 8\*10/100/1000Tx and 4\*100/1000Fx Dual Rate SFP Fiber Slots
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ Configuration: Web Console, 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
- ▶ Operating Temp. – STD: -10°~70°C, EOT: -40~75°C
- ▶ 5-Year Warranty

## INTRODUCTION

Antaira Technologies' LMX-1204G-SFP series is a 12-port industrial managed Ethernet switch that is embedded with 8\*10/100/1000Tx Ethernet ports and 4\*100/1000Fx SFP fiber ports that support either Single or Multi-Mode modules. The LMX-1204G-SFP series 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 LMX-1204G-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 within transportation, ITS and any other outdoor or harsh environment.

## DIMENSIONS



## SPECIFICATIONS

<b>Technology</b>		<b>Protection</b>	
	IEEE 802.3 10Tx Ethernet	<b>Overload Current</b>	Present
	IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3z Gigabit Fiber	<b>Power Reverse Polarity</b>	Present (the unit will not be on, if power reverse)
	IEEE 802.3x Flow Control for Full Duplex IEEE 802.3ad for Port Trunk with LACP IEEE 802.1d STP (Spanning Tree Protocol)	<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/E cable; EIA/TIA- 568 100-ohm (100m)
<b>Standards</b>	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	<b>Mechanical Characteristics</b>	
	IEEE 802.1Q for VLAN Tagging	<b>LED Indicator</b>	Per Unit: Power 1 & 2 (Green), Fault (Red)
	IEEE 802.1x for Network Authentication IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization	<b>Housing</b>	Metal IP30 rated
<b>Switch Properties</b>		<b>Dimensions</b>	54 x 142 x 99 mm
<b>Switch Architecture</b>	Back-Plane (Switching Fabric): 24.0Gbps 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>Weight</b>	Unit: 2.5 lbs Shipping: 3.0 lbs
<b>Protocol</b>		<b>Mounting</b>	DIN-Rail; Wall-mount (Optional)
<b>Data Process</b>	Store-and-Forward	<b>Power Requirement</b>	
<b>Transfer Rate</b>	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet	<b>Input Voltage</b>	12~48VDC Redundant Input
<b>Packet Buffer</b>	4 Mbits	<b>Power Connection</b>	1 removable 6-contact terminal block
<b>MAC Table</b>	8K	<b>Power Consumption</b>	15 Watts
<b>Jumbo Frame</b>	9.6K	<b>Environmental Limits</b>	
<b>Flow Control</b>	IEEE 802.3x for full duplex mode, back pressure for half duplex mode	<b>Operating Temperature</b>	STD: -10° to 70°C EOT: -40° to 75°C
<b>VLAN Group</b>	0 ~ 4094	<b>Storage Temperature</b>	-40°C ~ 85°C
<b>IGMP Group</b>	Up to 256 Groups	<b>Ambient Relative Humidity</b>	5 to 95%, (Non-condensing)
<b>Port Interface</b>		<b>Regulatory Approvals</b>	
<b>Ethernet Port</b>	8*10/100/1000Tx auto negotiation speed, Full/Half duplex mode, and auto MDI connection	<b>EMI</b>	FCC Class A
<b>Fiber Port</b>	4*100/1000 Dual Rate SFP Slots	<b>EMS</b>	EN6100-4-2,3,4,5,6,8 EN6100-6-2,4
<b>Wavelength</b>	Dependent on Fiber type and Distance	<b>Free Fall</b>	IEC60068-2-32
<b>RS232 Serial Console</b>	1*RS232 in RJ45 connector with console cable, 115.2bps,8,N,1	<b>Shock</b>	IEC60068-2-27
<b>Configuration Backup</b>	1*USB 2.0	<b>Vibration</b>	IEC60068-2-6
		<b>Green</b>	RoHS Compliant
		<b>Certifications</b>	FCC, CE, UL 61010-1, 61010-2-201, Class 1 Division 2 NEMA TS2, ATEX
		<b>Warranty</b>	5 Years

## ORDERING INFO

<b>LMX-1204G-SFP</b>	12-Port Industrial Gigabit Managed Ethernet Switch, w/10*10/100/1000Tx + 2*100/1000 SFP Slots
<b>LMX-1204G-SFP-T</b>	12-Port Industrial Gigabit Managed Ethernet Switch, w/10*10/100/1000Tx + 2*100/1000 SFP Slots; EOT: -40° to 75°C

### Optional Accessories

<b>MDR-20-24</b>	20 Watt Industrial Slim Single Output DIN-Rail Power Supply – 24VDC / 1.00 Amp
<b>MDR-40-48</b>	40 Watt Industrial Slim Single Output DIN-Rail Power Supply – 48VDC / 0.83 Amp
<b>DR-75-48</b>	75 Watt Industrial Single Output DIN-Rail Power Supply – 48VDC / 1.6 Amps
<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

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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