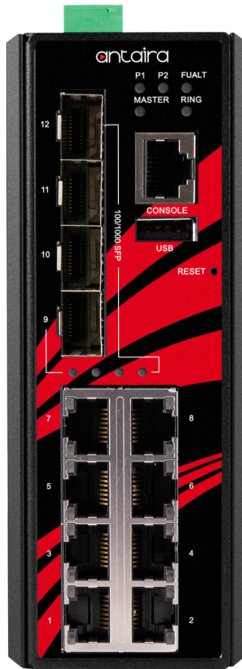


LMX-1204G-SFP(-T)

INDUSTRIAL GIGABIT MANAGED ETHERNET SWITCH



FEATURES

- Supports 8*10/100/1000T RJ45 & 4*1G 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/v3 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
- 5-Year Warranty



INTRODUCTION

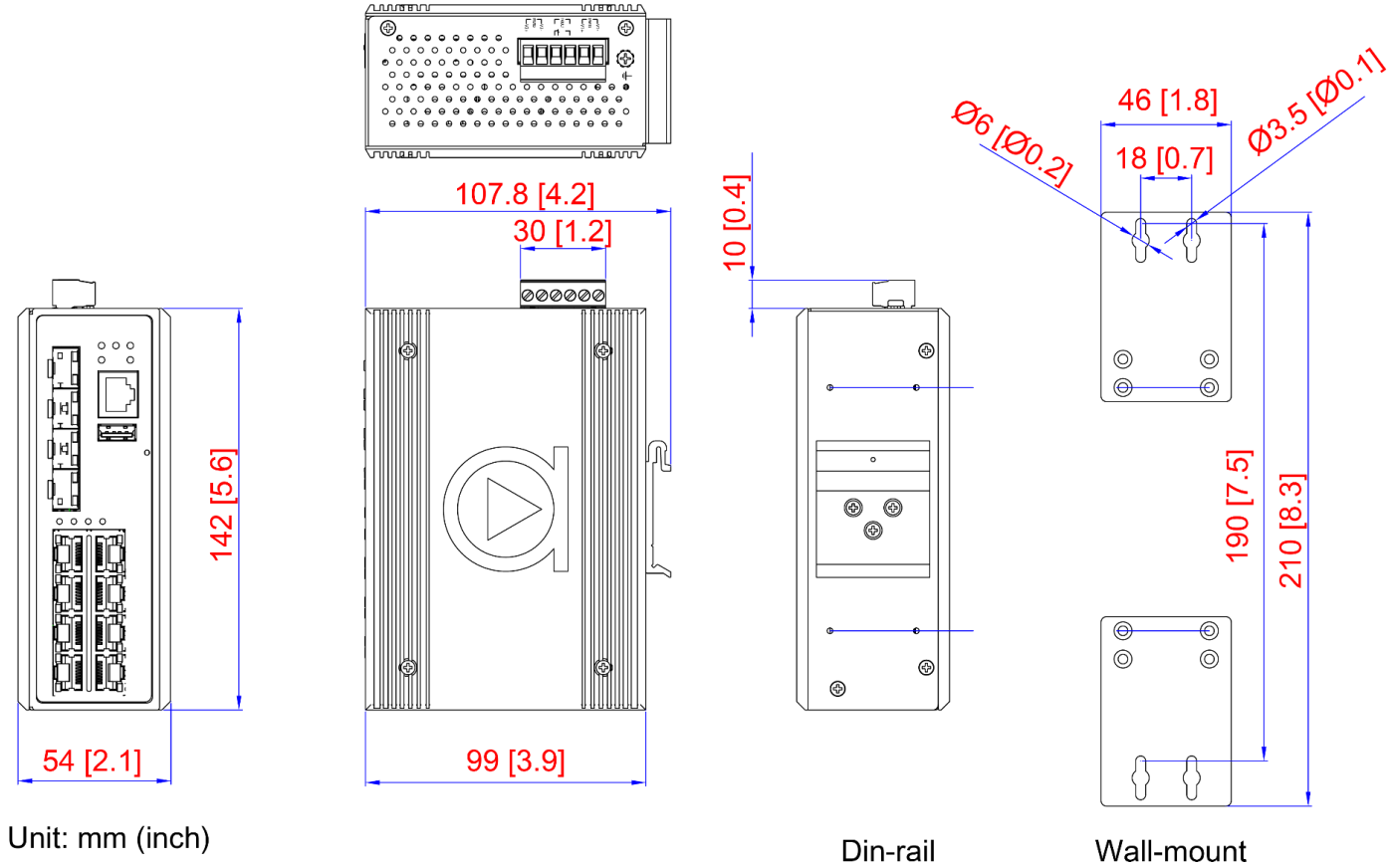
Antaira Technologies' LMX-1204G-SFP series is a 12-port industrial managed Ethernet switch that is embedded with 8*10/100/1000T Ethernet ports and 4*100/1000X SFP fiber ports that support either Single or Multi-Mode modules. The LMX- 1204G-SFP series is a fully manageable Layer 2 Ethernet switch that 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.

SPECIFICATIONS

Hardware Specifications						
Part Number	Total Ports	RJ-45	1G SFP	System Power	Input Voltage	Operating Temp.
LMX-1204G-SFP	12	8	4	15W	12~48VDC	-10 to 70°C 14 to 158°F
LMX-1204G-SFP-T	12	8	4	15W	12~48VDC	-40 to 75°C -40 to 167°F

Physical Specifications					
Part Number	Dimensions (W x H x D)	Weight (Unit)	Weight (Shipping)	Mounting	Housing
LMX-1204G-SFP LMX-1204G-SFP-T	54 x 142 x 99 mm 2.1 x 5.5 x 3.8in	1.13kg 2.5lb	1.36kg 3.0lb	DIN-Rail Wall Mount	Metal, IP30



Standards	
Part Number	IEEE Standards
LMX-1204G-SFP LMX-1204G-SFP-T	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control for Full Duplex IEEE 802.3ad for Port Trunk with LACP IEEE 802.1d 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

Switch Properties			
Specification		Specification	
Switch Architecture	Back-Plane (Switching Fabric): 24Gbps	Flow Control	IEEE 802.3x for Full Duplex Mode, Back Pressure for Half Duplex Mode
Configuration	Web Console, Telnet, CLI	Packet Buffer	4 Mbits
Processing Type	Store and Forward	Jumbo Frame	9.6K
VLAN Group	4095	MAC Table Size	8K
IGMP Group	1024	Overload Current Protection	Present
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port	Reverse Polarity Protection	Present
Relay Contact	24VDC, 1A resistive		

Key Firmware Features		
VLAN	Private VLAN Port-based VLAN IP Subnet-based VLAN GARP/GVRP Guest VLAN	MAC-based VLAN Protocol-based VLAN VLAN Trunking Voice VLAN
Layer 2 Switching	STP MSTP RSTP Port Mirror Loop Guard BPDU Guard	MEP G.8032 ESP v1/v2 Loop Detection LACP Error Disable Recovery
Layer 2 Multicast	IGMPv1/v2/v3 Snooping IGMP Filtering IPMC Filtering Leave Proxy	MLDv1/v2 Snooping IPMC Throttling
Layer 3 Switching	Static Route ARP NAT	
QoS	802.1p Queueing Input Priority Mapping Port/Queue/ACL policer DiffServ (DSCP)	Port Egress Shaper Queue Egress Shaper Tag Remarking Scheduler Mode
Power Saving	ActiPHY PerfectReach IEEE 802.3az EEE power management	

Security	SSHv2 Port-based 802.1X MAC-based Authentication QoS Assignment TACACS+ Web/CLI Authentication Port Security IP Source Guard DHCP Snooping Secure Copy Protocol (SCP)	IP Based Access Filter Access Control List (ACL) ACL for Filtering/Policing/Port Copy VLAN Assignment IP MAC Binding User Privilege (15 levels) RADIUS Authentication and Accounting ARP Inspection Broadcast/Multicast/Unicast Storm Control Secure FTP
Management	IPv4/IPv6 LLDP/LLDP-MED DHCP Client DHCP Server DNS Proxy Syslog Daylight Saving RMON Command Line Interface (CLI) Relay Trigger Telnet Server and Client Dual Image Protection Ping6 DDMI	SMTP SNMP v1/v2c/v3 HTTP/HTTPS DHCPv6 Client DNS Client ICMPv6 Time Zone NTP Client sFlow Power Lost Warning DHCP Option 82 TFTP Ping USB Configuration Backup/Restore Modbus TCP

Compliance Specifications

EMI	FCC Part 15 Subpart B Class A CE EN 55032/EN 61000-6-4 Class A
EMS	CE EN 55035/EN 61000-6-2 Class A: IEC 61000-4-2,3,4,5,6,8
Free Fall	IEC 60068-2-32
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Green	RoHS Compliant
Safety	UL 61010-1, UL 61010-2-201, UL Class 1 Division 2, ISA 12.12.01, NEMA TS2
Storage Environment	Storage Temperature: -40 to 85°C
Humidity	Ambient Relative Humidity 5% to 95%, (non-condensing)
Warranty	5 Years

ORDERING INFORMATION

PoE Injector Models	
Part Number	Description
LMX-1204G-SFP	12-Port Industrial Managed Ethernet Switch with 8*10/100/1000T and 4*100/1000 SFP Slots
LMX-1204G-SFP-T	12-Port Industrial Managed Ethernet Switch with 8*10/100/1000T and 4*100/1000 SFP Slots; EOT: -40°C to 75°C

Power Supply Options				
Part Number	Wattage	Input Voltage	PoE/PoE+ Support	Operating Temperature
HDR-30-24	36W	85-264VAC	Yes, Voltage Adjust 21.6~29VDC	-30~70°C / -22~158°F
HDR-60-24	60W	88-264VAC	Yes, Voltage Adjust 21.6~29VDC	-30~70°C / -22~158°F
MDR-60-24	60W	85-264VAC	Yes, Voltage Adjust 24~30VDC	-20~70°C / -4~158°F
EDR-75-48	75W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~60°C / -4~140°F
NDR-75-48	75W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~70°C / -4~158°F
DR-75-48	75W	85-264VAC	Yes, Voltage Adjust 48~53VDC	-10~60°C / 14~140°F
EDR-120-48	120W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~60°C / -4~140°F
NDR-120-24	120W	90-264VAC	Yes, Voltage Adjust 24~28VDC	-20~70°C / -4~158°F
DR-120-48	120W	88-264VAC	Yes, Voltage Adjust 48~53VDC	-10~60°C / 14~140°F
NDR-240-48	240W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~70°C / -4~158°F
SDR-240-24	240W	88-264VAC	Yes, Voltage Adjust 24~28VDC	-25~70°C / -13~158°F
SDR-240-48	240W	88-264VAC	Yes, Voltage Adjust 48~55VDC	-25~70°C / -13~158°F
NDR-480-48	480W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~70°C / -4~158°F

SFP Transceiver Series Options	
SFP-TM02	100Mbps SFP Transceiver/LC, MMF, 2KM, 1310nm, 0°C ~ 70°C
SFP-TM02-T	100Mbps SFP Transceiver/LC, MMF, 2KM, 1310nm, -40°C ~ 85°C
SFP-TS30	100Mbps SFP Transceiver/LC, SMF, 30KM, 1310nm, 0°C ~ 70°C
SFP-TS30-T	100Mbps SFP Transceiver/LC, SMF, 30KM, 1310nm, -40°C ~ 85°C
SFP-GM00	1Gbps SFP Transceiver/LC, MMF, 550M, 850nm, 0°C ~ 70°C
SFP-GM00-T	1Gbps SFP Transceiver/LC, MMF, 550M, 850nm, -40°C ~ 85°C
SFP-GM02	1Gbps SFP Transceiver/LC, MMF, 2KM, 1310nm, 0°C ~ 70°C
SFP-GM02-T	1Gbps SFP Transceiver/LC, MMF, 2KM, 1310nm, -40°C ~ 85°C
SFP-GS10	1Gbps SFP Transceiver/LC, SMF, 10KM, 1310nm, 0°C ~ 70°C
SFP-GS10-T	1Gbps SFP Transceiver/LC, SMF, 10KM, 1310nm, -40°C ~ 85°C
SFP-GS20	1Gbps SFP Transceiver/LC, SMF, 20KM, 1310nm, 0°C ~ 70°C
SFP-GS20-T	1Gbps SFP Transceiver/LC, SMF, 20KM, 1310nm, -40°C ~ 85°C

SFP-GS40	1Gbps SFP Transceiver/LC, SMF, 40KM, 1310nm, 0°C ~ 70°C
SFP-GS40-T	1Gbps SFP Transceiver/LC, SMF, 40KM, 1310nm, -40°C ~ 85°C
SFP-GS60	1Gbps SFP Transceiver/LC, SMF, 60KM, 1550nm, 0°C ~ 70°C
SFP-GS60-T	1Gbps SFP Transceiver/LC, SMF, 60KM, 1550nm, -40°C ~ 85°C
SFP-GS80	1Gbps SFP Transceiver/LC, SMF, 80KM, 1550nm, 0°C ~ 70°C
SFP-GS80-T	1Gbps SFP Transceiver/LC, SMF, 80KM, 1550nm, -40°C ~ 85°C

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