

LMX-2012G-SFP Series

20-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 8*10/100/1000Tx and 12*100/1000 SFP Slots







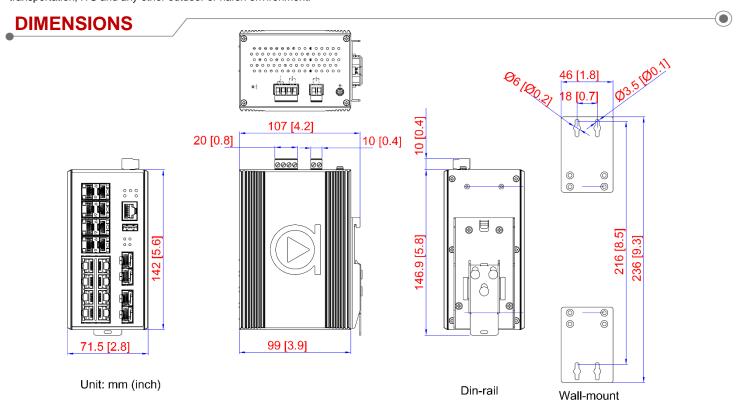
Features

- ➤ Supports 8*10/100/1000Tx Gigabit Ethernet and 12*100/1000 SFP Slots
- Network Redundancy Support: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)</p>
- ► 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
- ▶ QoS (IEEE 802.1p/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 Relay Output
- ▶ Operating Temperature Range - STD: -10°C to 65°C, EOT: -40°C to 75°C
- ► 5-Year Warranty

INTRODUCTION

Antaira Technologies' LMX-2012G-SFP series is a 20-port industrial Gigabit managed Ethernet switch that is embedded with 8*10/100/1000Tx Ethernet ports and 12*100/1000 SFP slots. The LMX-2012G-SFP 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 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, port lock, RMON, Modbus TCP, and 802.1X/HTTPS/SSH/SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LMX-2012G-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 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 within transportation, ITS and any other outdoor or harsh environment.





SPECIFICATIONS

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 DHCP sption82, static routes 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 ActiPHY, PerfectReach, IEEE 802.3az EEE power management STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2 (<50ms) Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3 System / Dual Image Protection, PING, PING6 Switch Properties Switch Architecture Back-Plane (Switching Fabric): 40.0Gbps IPv4/IPv6, SMMP 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 Priority Queues 8 Processing Type Store and Forward Flow Control IEEE 802.3x for full duplex mode, back pressure for half duplex mode 14,880pps for Estemet Port 148,000pps for Gigabit Ethernet Port 148,000pps for Gigabit Ethernet Port 148,000pps for Gigabit Ethernet Port Memory Buffer 4Mbits Jumbo Frame 9.6Kbytes MAC Table Size 8K VLAN Group 4095 IGMP Group 1024 Port Interface 8*10/100/1000BaseTx Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection SFP Port 12*100/1000 SFP Slots RS232 Serial 1*RS232 in RJ45 connector with console cable, Console 115.2Kbps, 8, N, 1 LED Indicators Ethernet Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active SFP: Link/Active		
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QoS 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 STP/RSTP/MSTP, port trunk with LACP, ERPS volves Redundancy V1/v2 (<50ms)	L3 Switching	DHCP option82, static routes
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Back-Plane (Switching Fabric): 40.0Gbps IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 client, DHCP client, DHCP 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 Store and Forward IEEE 802.3x for full duplex mode, back pressure for half duplex mode 14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port 1,488,000pps for Gigabit Ethernet Port 1,488,000pps for Gigabit Ethernet Port Memory Buffer 4Mbits 4095 MAC Table Size 8K VLAN Group 4095 IGMP Group 1024 Port Interface 8*10/100/1000BaseTx Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection SFP Port 12*100/1000 SFP Slots 1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8, N, 1 Configuration Backup System: Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active Selection Selection System: Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active Selection Selection Selection System: Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active School Selection Selection Selection System: Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active School Selection		-
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Processing TypeStore and ForwardFlow ControlIEEE 802.3x for full duplex mode, back pressure for half duplex modeTransfer Rate14,880pps for Ethernet Port148,800pps for Fast Ethernet PortMemory Buffer4MbitsJumbo Frame9.6KbytesMAC Table Size8KVLAN Group4095IGMP Group1024Port Interface8*10/100/1000BaseTxEthernet PortAuto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connectionSFP Port12*100/1000 SFP SlotsR\$232 Serial1*R\$232 in RJ45 connector with console cable, ConsoleConfiguration Backup1*USB 2.0System: Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active	Priority Queues	
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Transfer Rate 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port Memory Buffer 4Mbits Jumbo Frame 9.6Kbytes MAC Table Size 8K VLAN Group 4095 IGMP Group 1024 Port Interface 8*10/100/1000BaseTx Ethernet Port Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection SFP Port 12*100/1000 SFP Slots RS232 Serial 1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8, N, 1 Console 115.2Kbps, 8, N, 1 Configuration Backup System: Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active		IEEE 802.3x for full duplex mode, back
Jumbo Frame 9.6Kbytes MAC Table Size 8K VLAN Group 4095 IGMP Group 1024 Port Interface 8*10/100/1000BaseTx Ethernet Port Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection SFP Port 12*100/1000 SFP Slots RS232 Serial 1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8, N, 1 Console 115.2Kbps, 8, N, 1 Configuration Backup System: Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active	Transfer Rate	148,800pps for Fast Ethernet Port
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Console 115.2Kbps, 8, N, 1 Configuration Backup 1*USB 2.0 System: Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active		
System: Power 1, Power 2, Status, Master, Ring Ethernet: Speed/Link/Active	Console	·
LED Indicators Ring Ethernet: Speed/Link/Active		
	LED Indicators	Ring Ethernet: Speed/Link/Active

Network Cable
Housing Metal, IP30 rated Dimensions 71.5 x 142 x 99 mm (W x H x D) Weight Unit: 3.4 lbs
Dimensions 71.5 x 142 x 99 mm (W x H x D) Weight Unit: 3.4 lbs
Weight Unit: 3.4 lbs
Weight
Mounting DIN-Rail mounting, Wall mounting
Power Requirement
Input Voltage 12~48VDC Redundant Input
Power Connection 1 removable 4-contact terminal block and 1 removable 2-contact terminal block
Relay Contact 24VDC, 1A resistive
Overload Current Protection Present (Slow-Blown Fuse)
Reverse Polarity Protection Present
System Power 19W Consumption
Environmental Limits
Operating STD: -10°C to 65°C Temperature EOT: -40°C to 75°C
Storage -40°C to 85°C
Ambient Relative Humidity 5% to 95%, (non-condensing)
Regulatory Approvals
FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
CE EN55035/EN61000-6-2: IEC61000-4-2,3,4,5,6,8
Free Fall IEC60068-2-32
Shock IEC60068-2-27
Shock IEC60068-2-27 Vibration IEC60068-2-6
Shock IEC60068-2-27 Vibration IEC60068-2-6 Green RoHS Compliant
Shock IEC60068-2-27 Vibration IEC60068-2-6

ORDERING INFO

LMP-2012G-SFP 20-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 8*10/100/1000Tx Ports and 12*100/1000 SFP Slots

LMP-2012G-SFP-T 20-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 8*10/100/1000Tx Ports and 12*100/1000 SFP Slots; EOT: -40°C to 75°C



(lacksquare