LMX-0501G-SFP-V2 Series

5-Port Industrial Gigabit Managed Ethernet Switch w/4*10/100/1000Tx and 1*100/1000 SFP Slot; Version 2 Hardware

Features
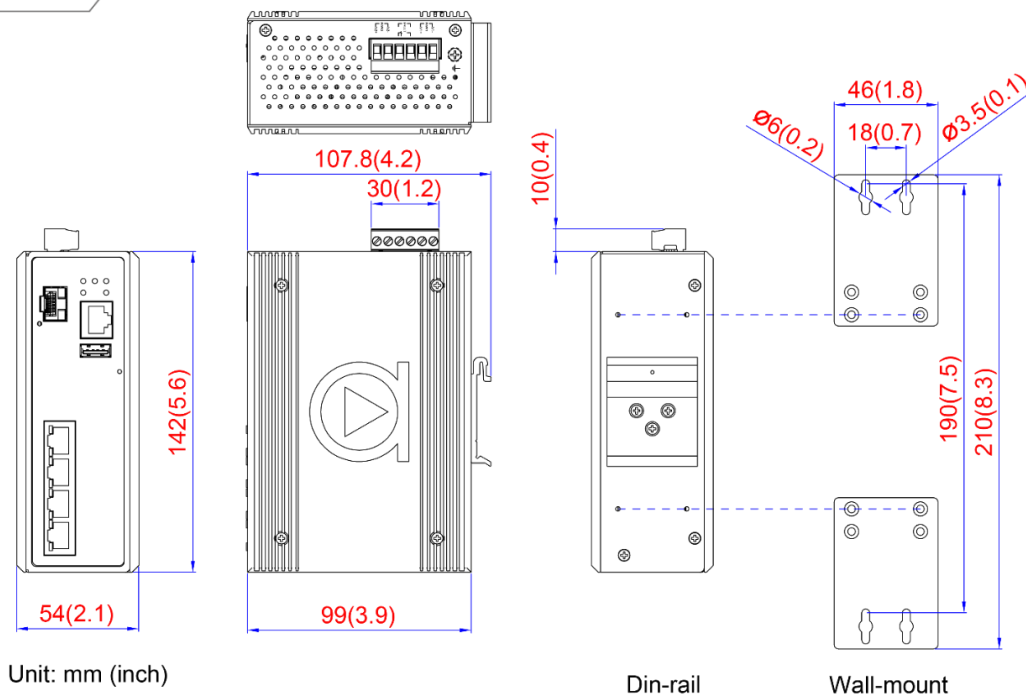
► **Supports 4*10/100/1000Tx Fast Ethernet Ports and 1*100/1000 SFP Slot**
► **Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)**
► **Configuration: Web Console, Telnet, CLI Command**
► **Supports IGMP v1/v2/v3, up to 1024 Groups**
► **Supports QoS (IEEE802.1p) and CoS/ToS**
► **Supports IEEE802.1Q VLAN, SNMP v1/v2c/v3**
► **Redundant Power Input Design: 12~48VDC**
► **Reverse Polarity Protection**
► **IP30 Protection**
► **DIN-Rail or Wall Mountable**
► **Operating Temperature Range**
   ‒ STD: -10° to 70°C, EOT: -40° to 75°C
► **5-Year Warranty**

INTRODUCTION

Antaira Technologies' LMX-0501G-SFP-V2 series is a 5-port industrial Gigabit managed Ethernet switch embedded with 4*10/100/1000Tx Ethernet ports and 1*100/1000Fx SFP slot. The LMX-0501G-SFP-V2 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 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 LMX-0501G-SFP-V2 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, ITS and any other outdoor or harsh environment.

DIMENSIONS

107.8(4.2)
30(1.2)
142(5.6)
54(2.1)
99(3.9)
10(0.4)
46(1.8)
Ø6(0.2)
18(0.7)
Ø3.5(0.1)
190(7.5)
210(8.3)

Unit: mm (inch)

Din-rail   Wall-mount

SPECIFICATIONS

Technology

L2 Switching	Port/MAC/Protocol/IP Subnet-based VLAN, VLAN trunking, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMPv2/v3 snooping, MLD snooping, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, ARP, MEP, 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): 10.0Gbps
Priority Queues	8
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Transfer Rate	14,880pps for Ethernet Port 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

Ethernet Port	4*10/100/1000Base-TX, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
SFP Port	1*100/1000 SFP Slot
RS232 Serial Console	1*RS232 in RJ45
Configuration Backup	1*USB 2.0
LED Indicators	System: Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/Link/Active 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) 1000BaseTX: 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: 1.9 lbs. Shipping: 2.7 lbs.
Mounting	DIN-Rail, Wall-mount (Optional)

Power Requirement

Input Voltage	12~48VDC Redundant Input
Power Connection	1 removable 6-contact terminal block
Relay Contact	24VDC, 1A resistive
Overload Current Protection	Present
Reverse Polarity Protection	Present
System Power Consumption	7.5W

Environmental Limits

Operating Temperature	STD: -10°C to 70°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, IEC61000-4-2,3,4,5,6,8
Free Fall / Shock / Vibration	IEC60068-2-32 / IEC60068-2-27 / IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE
Warranty	5 Years

ORDERING INFO

LMX-0501G-SFP-V2	5-Port Industrial Gigabit Managed Ethernet Switch w/4*10/100/1000Tx and 1*100/1000 SFP Slot, 12~48VDC Power Input; Version 2 Hardware
LMX-0501G-SFP-T-V2	5-Port Industrial Gigabit Managed Ethernet Switch w/4*10/100/1000Tx and 1*100/1000 SFP Slot, 12~48VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C