LMP-0602-XX-V2 Series

6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 2*100Fx Multi-Mode/Single Mode; Version 2 Hardware
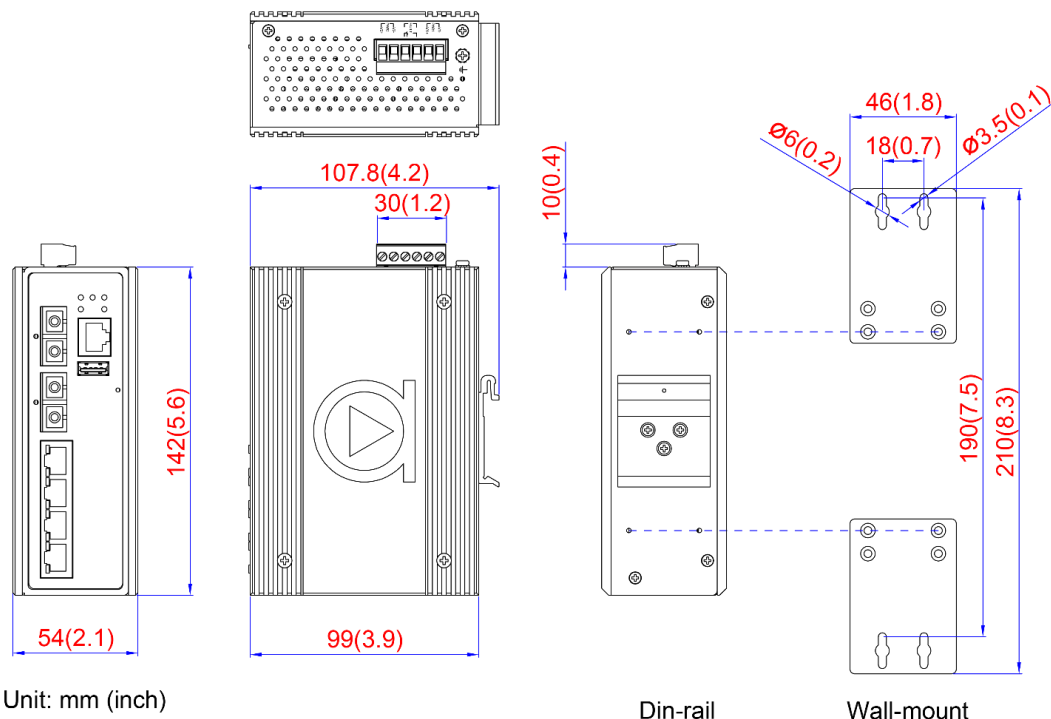
Features

► **Supports 4*10/100Tx IEEE 802.3af/at Compliant with 30W/Port and 2*100Fx Fiber Ports**
► **Fiber Supports: Multi-Mode or Single-Mode**
► **Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)**
► **Configuration: Web Console, Serial, 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**
► **Redundant Power Input Design: 48~55VDC**
► **Reverse Polarity Protection**
► **IP30 Protection**
► **DIN-Rail or Wall Mountable**
► **Operating Temperature Range**
   – STD: -10°C to 70°C, EOT: -40°C to 75°C
► **5-Year Warranty**

INTRODUCTION

Antaira Technologies' LMP-0602-XX-V2 series is a 6-port industrial PoE+ managed Ethernet switch embedded with 4*10/100Tx Ethernet ports that support IEEE802.3af/at for a maximum of 30W/port and 2*100Fx fiber connections. The LMP-0602-XX-V2 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-0602-XX-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)
18(0.7)
Ø6(0.2)
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 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): 1.2Gbps
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, Power Lost Warning, Relay Trigger
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
Memory Buffer	4Mbits
Jumbo Frame	9.6Kbytes
MAC Table Size	8K
VLAN Group	4095
IGMP Group	1024

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)

Port Interface

Ethernet Port	4*10/100Base-TX with PoE+ (30W/Port), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDIX connection
Fiber Port	2*100Base-FX SC/ST type connector
RS232 Serial Console	1*RS232 in RJ45
LED Indicators	System: Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/Link/Active Fixed Fiber: Link/Active

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 mounting, Wall mounting

Power Requirement

Input Voltage	48~55VDC Redundant Input
Power Connection	1 removable 6-contact terminal block
Relay Contact	24VDC, 1A resistive
Overload Current Protection	Present
Reverse Polarity Protection	Present
PoE Pin Assignment	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, Mode A)
PoE Power Budget	120W@48~55VDC
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 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, 61010-2-201
Warranty	5 Years

ORDERING INFO

LMP-0602-M-V2	6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 2*100Fx Multi-Mode 2Km; Version 2 Hardware
LMP-0602-M-T-V2	6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 2*100Fx Multi-Mode 2Km; Version 2 Hardware; EOT: -40°C to 75°C
LMP-0602-S3-V2	6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 2*100Fx Single-Mode 30Km; Version 2 Hardware
LMP-0602-S3-T-V2	6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 2*100Fx Single-Mode 30Km; Version 2 Hardware; EOT: -40°C to 75°C
LMP-0602-ST-M-V2	6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 2*100Fx Multi-Mode 2Km; Version 2 Hardware
LMP-0602-ST-M-T-V2	6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 2*100Fx Multi-Mode 2Km; Version 2 Hardware; EOT: -40°C to 75°C
LMP-0602-ST-S3-V2	6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 2*100Fx Single-Mode 30Km; Version 2 Hardware
LMP-0602-ST-S3-T-V2	6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 2*100Fx Single -Mode 30Km; Version 2 Hardware; EOT: -40°C to 75°C