

## 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

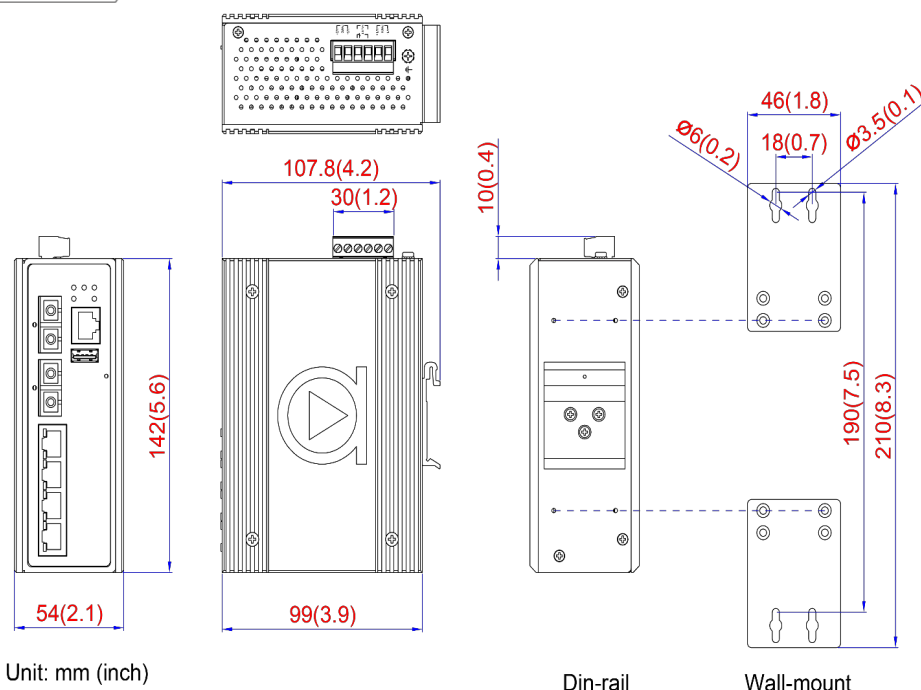
- ▶ Supports 4\*10/100Tx IEEE 802.3af/at Compliant with 30W/Port and 2\*100Fx Fiber Ports
- ▶ Fiber Supports: Multi-Mode or Single-Mode
- ▶ Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Configuration: Web Console, Serial, CLI Command
- ▶ Supports IGMP v1/v2/v3, up to 1024 Groups
- ▶ Supports QoS (IEEE802.1p) and CoS/ToS
- ▶ Supports IEEE802.1Q VLAN, SNMP v1/v2c/v3
- ▶ 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



## 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, NAT, DHCP per port, SMTP, Quick ERPS, TLS                        |
| 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 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 |
| Protocols            |                                                                                                                                                                                                                                                                                                                                                    |
| 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<br>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<br>EIA/TIA-568 100-ohm (100m)<br>100Base-TX: 2-pair UTP/STP Cat. 5 cable<br>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<br>Ethernet Ports: Speed/Link/Active<br>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<br>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                                                                                                              |
| System Power Consumption    | 7.5W                                                                                                              |
| Environmental Limits        |                                                                                                                   |
| Operating Temperature       | STD: -10°C to 70°C<br>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,<br>CE EN55032/EN61000-6-4 Class A                                                  |
| EMS                         | CE EN55035/EN61000-6-2,<br>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 |

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