

# LMX-0602-XX-V2 Series

6-Port Industrial Light Layer 3 Managed Ethernet Switch, with 4\*10/100Tx and 2\*100Fx Multi-Mode/Single Mode, 12~48VDC Power Input; Version 2 Hardware



## Features

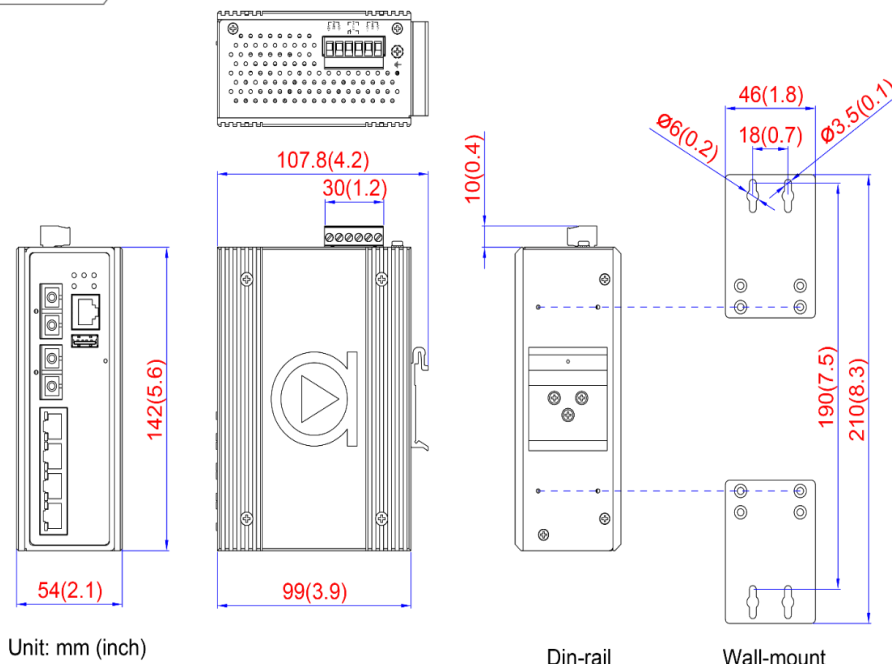
- ▶ Supports 4\*10/100Tx RJ45 Ports and 2\*100Fx Fiber Ports
- ▶ Supports Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ Configuration: Web Console, Telnet, CLI Command
- ▶ Supports IGMP v1/v2/v3, up to 1024 Groups
- ▶ QoS (IEEE802.1p/1Q), CoS/ToS to Increase Determinism
- ▶ Redundant Power Input Design: 12~48VDC
- ▶ 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' **LMX-0602-XX-V2 series** is a 6-port industrial managed Ethernet switch embedded with 4\*10/100Tx Ethernet ports and 2\*100Fx fiber connections. The LMX-0602-XX-V2 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 LMX-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

|   |  |
|---|--|
| <b>Technology</b>                         | 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                        |
| <b>L2 Switching</b>                       |  |
| <b>L3 Switching</b>                       | DHCP option82, static routes   |
| <b>QoS</b>                                | 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  |
| <b>Power Saving</b>                       | ActiPHY, PerfectReach, IEEE 802.3az EEE power management   |
| <b>Network Redundancy</b>                 | STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2 (<50ms)  |
| <b>Configuration System / Diagnostics</b> | Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3<br>Dual Image Protection, PING, PING6   |
| <b>Switch Properties</b>                  |  |
| <b>Switch Architecture</b>                | 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 |
| <b>Protocols</b>                          |  |
| <b>Priority Queues</b>                    | 8  |
| <b>Processing Type</b>                    | Store and Forward  |
| <b>Flow Control</b>                       | IEEE 802.3x flow control, back pressure flow control   |
| <b>Transfer Rate</b>                      | 14,880pps for Ethernet Port<br>148,800pps for Fast Ethernet Port   |
| <b>Memory Buffer</b>                      | 4Mbits   |
| <b>Jumbo Frame</b>                        | 9.6Kbytes  |
| <b>MAC Table Size</b>                     | 8K   |
| <b>VLAN Group</b>                         | 4095   |
| <b>IGMP Group</b>                         | 1024   |
| <b>Port Interface</b>                     |  |
| <b>Ethernet Port</b>                      | 4*10/100Base-TX, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection  |
| <b>Fiber Port</b>                         | 2*100Base-FX SC/ST type connector  |

|                                    |  |
|------------------------------------|--|
| <b>RS232 Serial Console</b>        | 1*RS232 in RJ45  |
| <b>LED Indicators</b>              | System: Power 1, Power 2, Master, Ring, Fault<br>Ethernet Ports: Speed/Link/Active<br>Fixed Fiber: Link/Active                                     |
| <b>Protection</b>                  |  |
| <b>Network Cable</b>               | 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) |
| <b>Mechanical Characteristics</b>  |  |
| <b>Housing</b>                     | Metal, IP30 protection   |
| <b>Dimensions</b>                  | 54 x 142 x 99 mm (W x H x D)   |
| <b>Weight</b>                      | Unit: 1.9 lbs<br>Shipping: 2.7 lbs   |
| <b>Mounting</b>                    | DIN-Rail mounting, Wall mounting   |
| <b>Power Requirement</b>           |  |
| <b>Input Voltage</b>               | 12~48VDC Redundant Input   |
| <b>Power Connection</b>            | 1 removable 6-contact terminal block   |
| <b>Relay Contact</b>               | 24VDC, 1A resistive  |
| <b>Overload Current Protection</b> | Present  |
| <b>Reverse Polarity Protection</b> | Present  |
| <b>System Power Consumption</b>    | 7.5W   |
| <b>Environmental Limits</b>        |  |
| <b>Operating Temperature</b>       | STD: -10°C to 70°C<br>EOT: -40°C to 75°C   |
| <b>Storage Temperature</b>         | -40°C to 85°C  |
| <b>Ambient Relative Humidity</b>   | 5% to 95%, (non-condensing)  |
| <b>Regulatory Approvals</b>        |  |
| <b>EMI</b>                         | FCC Part 15 Subpart B Class A,<br>CE EN55032/EN61000-6-4 Class A   |
| <b>EMS</b>                         | CE EN55035/EN61000-6-2,<br>IEC61000-4-2,3,4,5,6,8  |
| <b>Free Fall</b>                   | IEC60068-2-32  |
| <b>Shock</b>                       | IEC60068-2-27  |
| <b>Vibration</b>                   | IEC60068-2-6   |
| <b>Green</b>                       | RoHS Compliant   |
| <b>Certifications</b>              | FCC, CE, UL 61010-1, 61010-2-201   |
| <b>Warranty</b>                    | 5 Years  |

## ORDERING INFO

|                            |   |
|----------------------------|---|
| <b>LMX-0602-M-V2</b>       | 6-Port Industrial Light Layer 3 Managed Ethernet Switch, with 4*10/100Tx and 2*100Fx Multi-Mode 2Km, 12~48VDC Power Input; Version 2 Hardware                                     |
| <b>LMX-0602-M-T-V2</b>     | 6-Port Industrial Light Layer 3 Managed Ethernet Switch, with 4*10/100Tx and 2*100Fx Multi-Mode 2Km, 12~48VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C                 |
| <b>LMX-0602-S3-V2</b>      | 6-Port Industrial Light Layer 3 Managed Ethernet Switch, with 4*10/100Tx and 2*100Fx Single-Mode 30Km, 12~48VDC Power Input; Version 2 Hardware                                   |
| <b>LMX-0602-S3-T-V2</b>    | 6-Port Industrial Light Layer 3 Managed Ethernet Switch, with 4*10/100Tx and 2*100Fx Single-Mode 30Km, 12~48VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C               |
| <b>LMX-0602-ST-M-V2</b>    | 6-Port Industrial Light Layer 3 Managed Ethernet Switch, with 4*10/100Tx and 2*100Fx Multi-Mode 2Km, ST Connector, 12~48VDC Power Input; Version 2 Hardware                       |
| <b>LMX-0602-ST-M-T-V2</b>  | 6-Port Industrial Light Layer 3 Managed Ethernet Switch, with 4*10/100Tx and 2*100Fx Multi-Mode 2Km, ST Connector, 12~48VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C   |
| <b>LMX-0602-ST-S3-V2</b>   | 6-Port Industrial Light Layer 3 Managed Ethernet Switch, with 4*10/100Tx and 2*100Fx Single-Mode 30Km, ST Connector, 12~48VDC Power Input; Version 2 Hardware                     |
| <b>LMX-0602-ST-S3-T-V2</b> | 6-Port Industrial Light Layer 3 Managed Ethernet Switch, with 4*10/100Tx and 2*100Fx Single-Mode 30Km, ST Connector, 12~48VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C |

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