

LMP-0501-XX-V2 Series

5-Port Industrial PoE+ Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 1*100Fx Multi-Mode/Single Mode, 48~55VDC Power Input; Version 2 Hardware



Features

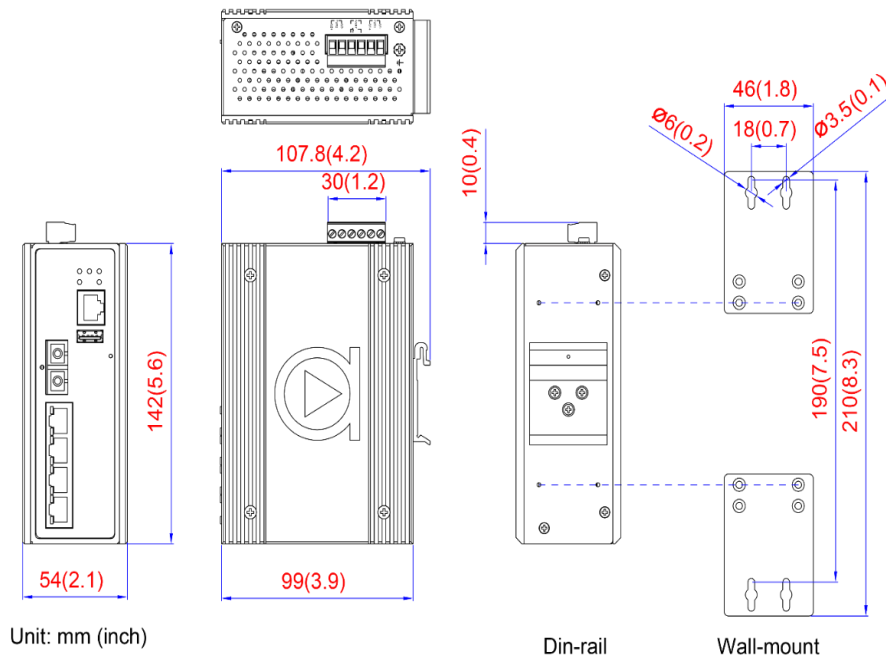
- ▶ Supports 4*10/100Tx IEEE 802.3at/af Compliant with 30W/Port and 1*100Fx Fiber Port
- ▶ Network Redundancy: RSTP/MSTP and TG.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IGMP v1/v2/v3, up to 1024 Groups
- ▶ Supports QoS (IEEE802.1p) and CoS/ToS
- ▶ Supports IEEE802.1Q VLAN, SNMP v1/v2c/v3
- ▶ PoE Ping Alarm Function for PoE Ports Power Recycle
- ▶ Redundant Power Input: 48~55VDC
- ▶ 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' LMP-0501-XX-V2 series is a 5-port industrial PoE+ managed Ethernet switch embedded with 4*10/100Tx Ethernet ports that support IEEE802.3at/af for a maximum of 30W/port and 1*100Fx fiber connection. The LMP-0501-XX-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 LMP-0501-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

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| Technology | 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 |
| L2 Switching | |
| L3 Switching | DHCP option82, 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 |
| QoS | |
| Power Saving | ActiPHY, PerfectReach, IEEE 802.3az EEE power management |
| Network Redundancy | STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2 (<50ms) |
| Configuration System / Diagnostics | Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3 Dual Image Protection, PING, PING6 |
| Switch Properties | |
| Switch Architecture | Back-Plane (Switching Fabric): 1Gbps |
| 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 |
| Port Interface | |
| Ethernet Port | 4*10/100Base-TX, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection |
| Fiber Port | 1*100Base-FX SC/ST type connector |
| 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 Fixed Fiber: Link/Active |

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| 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) |
| 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 | 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 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 EN55022/EN61000-6-4 Class A |
| EMS | CE EN55024/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

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| LMP-0501-M-V2 | 5-Port Industrial PoE+ Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 1*100Fx Multi-Mode 2Km, 48~55VDC Power Input; Version 2 Hardware |
| LMP-0501-M-T-V2 | 5-Port Industrial PoE+ Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 1*100Fx Multi-Mode 2Km, 48~55VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C |
| LMP-0501-S3-V2 | 5-Port Industrial PoE+ Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 1*100Fx Single-Mode 30Km, 48~55VDC Power Input; Version 2 Hardware |
| LMP-0501-S3-T-V2 | 5-Port Industrial PoE+ Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 1*100Fx Single-Mode 30Km, 48~55VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C |
| LMP-0501-ST-M-V2 | 5-Port Industrial PoE+ Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 1*100Fx Multi-Mode 2Km, 48~55VDC Power Input; Version 2 Hardware |
| LMP-0501-ST-M-T-V2 | 5-Port Industrial PoE+ Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 1*100Fx Multi-Mode 2Km, 48~55VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C |
| LMP-0501-ST-S3-V2 | 5-Port Industrial PoE+ Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 1*100Fx Single-Mode 30Km, 48~55VDC Power Input; Version 2 Hardware |
| LMP-0501-ST-S3-T-V2 | 5-Port Industrial PoE+ Managed Ethernet Switches w/4*10/100Tx (30W/Port) and 1*100Fx Single-Mode 30Km, 48~55VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C |

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