# ASSURED SYSTEMS

# antaira®

# LMP-0600-V2 Series

6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches, with 4*10/100Tx (30W/Port) and 2*10/100Tx; Version 2 Hardware
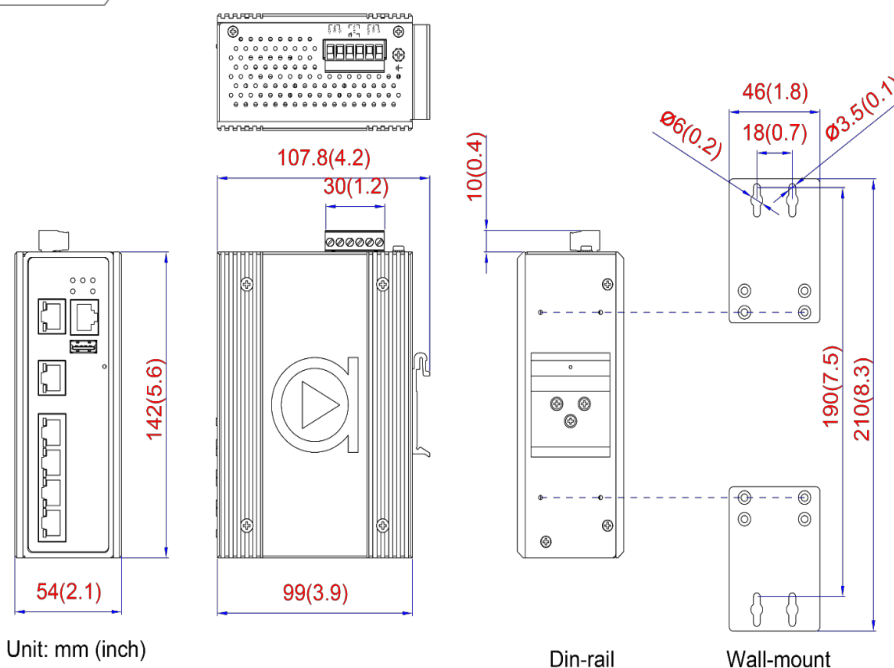
## Features

▶ Supports 4*10/100Tx IEEE 802.3af/at Compliant with 30W/Port and 2*10/100Tx Fast Ethernet 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
▶ IGMP v1/v2/v3 for Multicast Traffic Filtering
▶ QoS (IEEE802.1p/1Q), CoS/ToS to Increase Determinism
▶ Power Input: 48~55VDC in 6-Pin Terminal Block
▶ 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-0600-V2 series** is a 6-port industrial PoE+ managed Ethernet switch embedded with 4*10/100Tx Ethernet ports that support IEEE802.3at/af for a maximum of 30 watts per port and 2*10/100Tx Fast Ethernet ports. The LMP-0600-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 LMP-0600-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, 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 |
| **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 |

## Port Interface

| | |
|---|---|
| **Ethernet Port** | 6*10/100Base-TX with 4*PoE+ (30W/Port), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDIX connection |
| **RS232 Serial Console** | 1*RS232 in RJ45 |
| **LED Indicators** | System: Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/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) |

## 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, MDI Alternative 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 EN55032/EN61000-6-4 Class A |
| **EMS** | CE EN55035/EN61000-6-2, 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, 61010-2-201 |
| **Warranty** | 5 Years |

# ORDERING INFO

| | |
|---|---|
| **LMP-0600-V2** | 6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches with 4*10/100Tx (30W/Port) and 2*10/100Tx, 48~55VDC Power Input; Version 2 Hardware |
| **LMP-0600-T-V2** | 6-Port Industrial PoE+ Light Layer 3 Managed Ethernet Switches with 4*10/100Tx (30W/Port) and 2*10/100Tx, 48~55VDC Power Input; Version 2 Hardware; EOT: -40°C to 75°C |

# Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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