

## LMP-0702G-SFP-bt-V2 Series

7-Port Industrial Gigabit IEEE 802.3bt PoE++ Light Layer 3 Managed Ethernet Switch, with 4\*10/100/1000Tx (90W/Port), 1\*10/100/1000Tx, and 2\*100/1000 SFP Slots



### Features

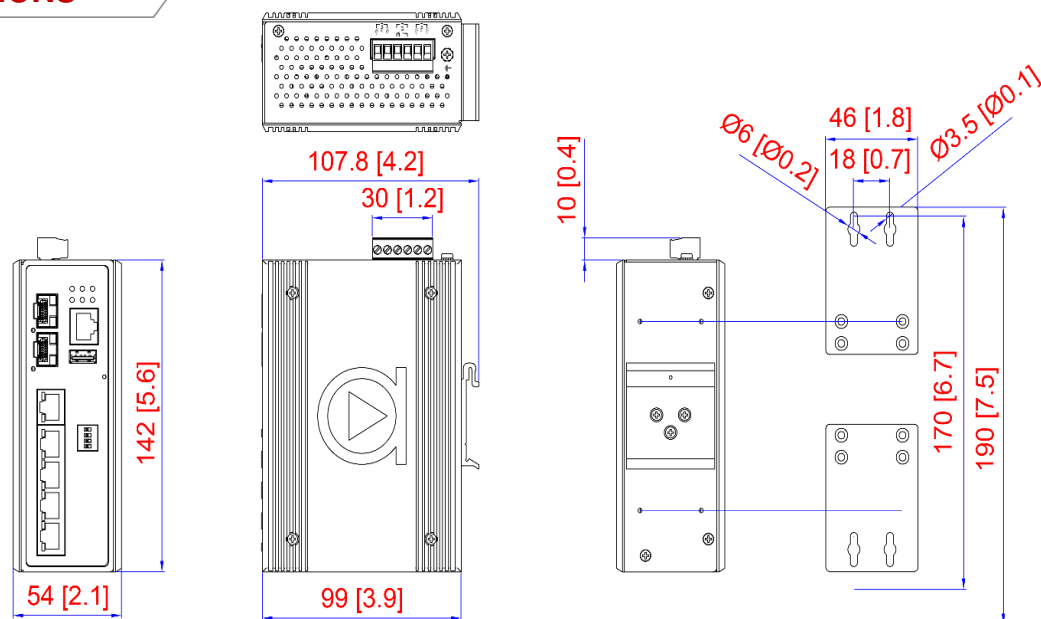
- ▶ Supports 4\*10/100/1000Tx IEEE 802.3bt Compliant with 90W/Port, 1\*10/100/1000Tx RJ45 Port, and 2\*100/1000 SFP Slots
- ▶ Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS v1/v2 (Recovery Time <50ms)
- ▶ Configuration: Web Console, Telnet, CLI Command
- ▶ Supports IGMP v1/v2/v3, up to 1024 Groups
- ▶ Supports QoS (IEEE802.1p) and CoS/ToS
- ▶ Supports IEEE802.1Q VLAN, SNMP v1/v2c/v3
- ▶ Power Input: 48~55VDC in 6-Pin Terminal Block
- ▶ Reverse Polarity Protection
- ▶ IP30 Protection
- ▶ DIN-Rail or Wall Mountable
- ▶ Operating Temperature Range
  - STD: -10°C to 65°C, EOT: -40°C to 75°C
- ▶ 5-Year Warranty

### INTRODUCTION

Antaira Technologies' LMP-0702G-SFP-bt-V2 series is a 7-port industrial Gigabit PoE++ managed Ethernet switch embedded with 4\*10/100/1000Tx Ethernet ports that support IEEE802.3bt for a maximum of 90W/port, 1\*10/100/1000Tx Gigabit Ethernet port, and 2\*100/1000 dual rate SFP slots for fiber connection. The LMP-0702G-SFP-bt-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-0702G-SFP-bt-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 65°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



Unit: mm (inch)

Din-rail

Wall-mount

## SPECIFICATIONS

| Technology                         |                                                                                                                                                                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L2 Switching</b>                | Port/MAC/Protocol/IP Subnet-based VLAN, VLAN trunking, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP v1/v2/v3 snooping, MLD snooping, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, ARP, MEP, G.8032 v1/v2                        |
| <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</b>               | Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3                                                                                                                                                                                                                                                                |
| <b>System / Diagnostics</b>        | Dual Image Protection, PING, PING6                                                                                                                                                                                                                                                                          |
| Switch Properties                  |                                                                                                                                                                                                                                                                                                             |
| <b>Switch Architecture</b>         | Back-Plane (Switching Fabric): 14Gbps                                                                                                                                                                                                                                                                       |
| <b>Priority Queues</b>             | 8                                                                                                                                                                                                                                                                                                           |
| <b>Protocols</b>                   | 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>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<br>1,488,000pps for Gigabit 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                                                                                                                                                                                                                                                                                                        |
| Port Interface                     |                                                                                                                                                                                                                                                                                                             |
| <b>Ethernet Port</b>               | 5*10/100/1000Base-TX (90W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection                                                                                                                                                                             |
| <b>SFP Port</b>                    | 2*100/1000 SFP Slots                                                                                                                                                                                                                                                                                        |
| <b>RS232 Serial Console</b>        | 1*RS232 in RJ45                                                                                                                                                                                                                                                                                             |
| <b>LED Indicators</b>              | System: Power 1, Power 2, Master, Ring, Status, and PoE Load<br>Ethernet Ports: Speed/Link/Active<br>PoE: On-connected to PD devices<br>SFP: Link/Active                                                                                                                                                    |
| Protection                         |                                                                                                                                                                                                                                                                                                             |
| <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)<br>1000Base-T: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)                                                                                 |
| Mechanical Characteristics         |                                                                                                                                                                                                                                                                                                             |
| <b>Housing</b>                     | Metal, IP30 protection                                                                                                                                                                                                                                                                                      |
| <b>Dimensions</b>                  | 54 x 142 x 99 mm (W x H x D)                                                                                                                                                                                                                                                                                |
| <b>Weight</b>                      | Unit: 2.29 lbs<br>Shipping: 3.01 lbs                                                                                                                                                                                                                                                                        |
| <b>Mounting</b>                    | DIN-Rail mounting, Wall mounting                                                                                                                                                                                                                                                                            |
| Power Requirement                  |                                                                                                                                                                                                                                                                                                             |
| <b>Input Voltage</b>               | 48~55VDC Redundant Input<br>(53~55VDC power input for BT PoE PSE)                                                                                                                                                                                                                                           |
| <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>PoE Pin Assignment</b>          | V-, V-, V+, V+ for pin 1, 2, 3, 6<br>V+, V+, V-, V- for pin 4, 5, 7, 8<br>*Support Modes: Mode A, Mode B, 4-Pair Mode                                                                                                                                                                                       |
| <b>PoE Power Budget</b>            | 240W @48~55VDC                                                                                                                                                                                                                                                                                              |
| <b>System Power Consumption</b>    | 10.8W                                                                                                                                                                                                                                                                                                       |
| Environmental Limits               |                                                                                                                                                                                                                                                                                                             |
| <b>Operating Temperature</b>       | STD: -10°C to 65°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)                                                                                                                                                                                                                                                                                 |
| Regulatory Approvals               |                                                                                                                                                                                                                                                                                                             |
| <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 Class A,<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                                                                                                                                                                                                                                                                                                     |
| <b>Warranty</b>                    | 5 Years                                                                                                                                                                                                                                                                                                     |

## ORDERING INFO

|                              |                                                                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LMP-0702G-SFP-bt-V2</b>   | 7-Port Industrial Gigabit IEEE 802.3bt PoE++ Light Layer 3 Managed Ethernet Switch, with 4*10/100/1000Tx (90W/Port), 1*10/100/1000Tx, and 2*100/1000 SFP Slots                     |
| <b>LMP-0702G-SFP-bt-T-V2</b> | 7-Port Industrial Gigabit IEEE 802.3bt PoE++ Light Layer 3 Managed Ethernet Switch, with 4*10/100/1000Tx (90W/Port), 1*10/100/1000Tx, and 2*100/1000 SFP Slots; 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.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660