

## LMP-C602G-SFP-bt-V2 Series

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



### Features

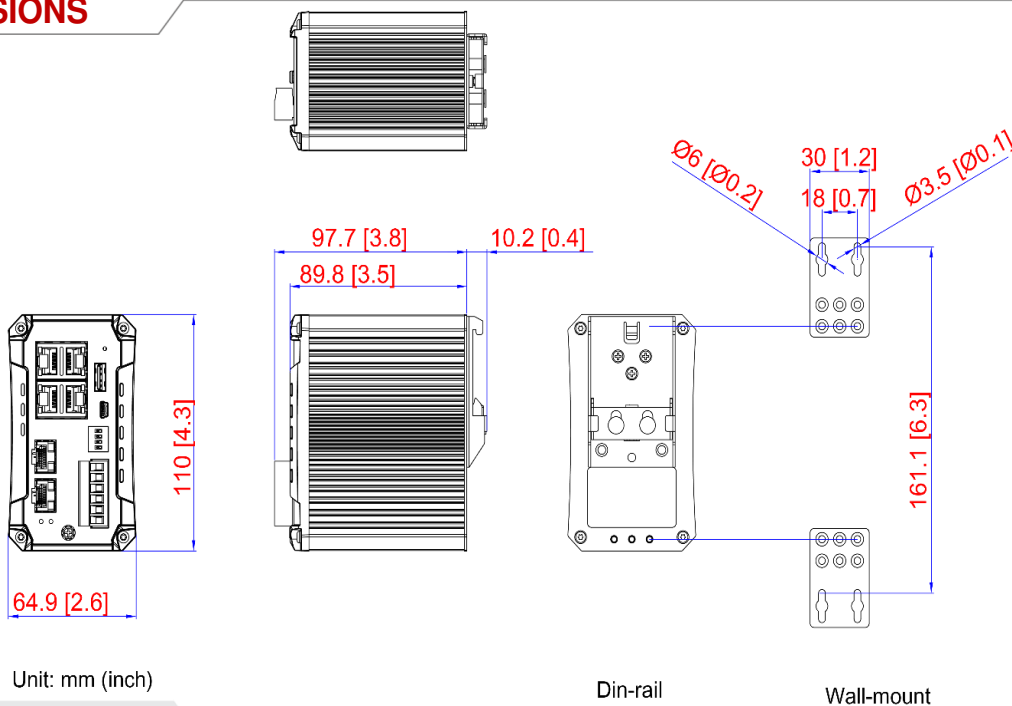
- ▶ Supports 4\*10/100/1000Tx IEEE 802.3bt Compliant with 90W/Port and 2\*100/1000 SFP Slots
- ▶ Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Configuration: Web Console, Telnet, CLI Command
- ▶ Supports IGMP v1/v2/v3, up to 1024 Groups
- ▶ Supports QoS (IEEE802.1p) and CoS/ToS
- ▶ Supports IEEE802.1Q VLAN, SNMP v1/v2c
- ▶ Power Input: 48~55VDC in 6-Pin Terminal Block
- ▶ Reverse Polarity Protection
- ▶ IP40 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-C602G-SFP-bt-V2 series is a 6-port industrial compact Gigabit PoE++ managed Ethernet switch embedded with 4\*10/100/1000Tx Ethernet ports that support IEEE 802.3bt for a maximum of 90W/port and 2\*100/1000Fx dual rate SFP slots for fiber connection. The LMP-C602G-SFP-bt-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-C602G-SFP-bt-V2 series is IP40 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. With a compact form and all connections facing the front of the Ethernet switch making it easy viewing of installations in a reserved space.

### 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 snooping, MLD snooping, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, ARP, MEP, G.8032 v1/v2   |
| <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</b>        | Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3  |
| <b>System / Diagnostics</b> | Dual Image Protection, PING, PING6  |
| <b>Switch Properties</b>    |   |
| <b>Switch Architecture</b>  | Back-Plane (Switching Fabric): 12Gbps 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<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  |
| <b>Port Interface</b>       |   |
| <b>Ethernet Port</b>        | 4*10/100/1000Base-TX w/PoE++ (90W/Port)<br>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*Mini USB type B connector   |
| <b>LED Indicators</b>       | System: Power 1, Power 2, Master, Ring, and Status<br>Ethernet Ports: Speed/Link/Active<br>PoE: On- connected to PD devices<br>SFP Port: Link/Active<br>PoE Load: 50%, 70%, 90%   |

|                                    |  |
|------------------------------------|--|
| <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)<br>1000Base-TX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m) |
| <b>Mechanical Characteristics</b>  |  |
| <b>Housing</b>                     | Metal, IP40 protection   |
| <b>Dimensions</b>                  | 64.9 x 110 x 89.8 mm (W x H x D)   |
| <b>Weight</b>                      | Unit: 2.08 lbs<br>Shipping: 2.69 lbs   |
| <b>Mounting</b>                    | DIN-Rail mounting, Wall mounting   |
| <b>Power Requirement</b>           |  |
| <b>Input Voltage</b>               | 48~55VDC Redundant Input<br>*For IEEE 802.3bt application, power supply not less than 53V is recommended   |
| <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   |
| <b>System Power Consumption</b>    | 10.8W  |
| <b>Environmental Limits</b>        |  |
| <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)  |
| <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 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-C602G-SFP-bt-V2</b>   | 6-Port Industrial Compact Gigabit IEEE 802.3bt PoE++ Light Layer 3 Managed Ethernet Switch, w/4*10/100/1000Tx (90W/Port) and 2*100/1000 SFP Slots                     |
| <b>LMP-C602G-SFP-bt-T-V2</b> | 6-Port Industrial Compact Gigabit IEEE 802.3bt PoE++ Light Layer 3 Managed Ethernet Switch, w/4*10/100/1000Tx (90W/Port) and 2*100/1000 SFP Slots; EOT: -40°C to 75°C |

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