

# LNP-1002G-10G-SFP

10-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 8\*10/100/1000Tx (30W/Port) and 2\*10G SFP+ Slots



## Features

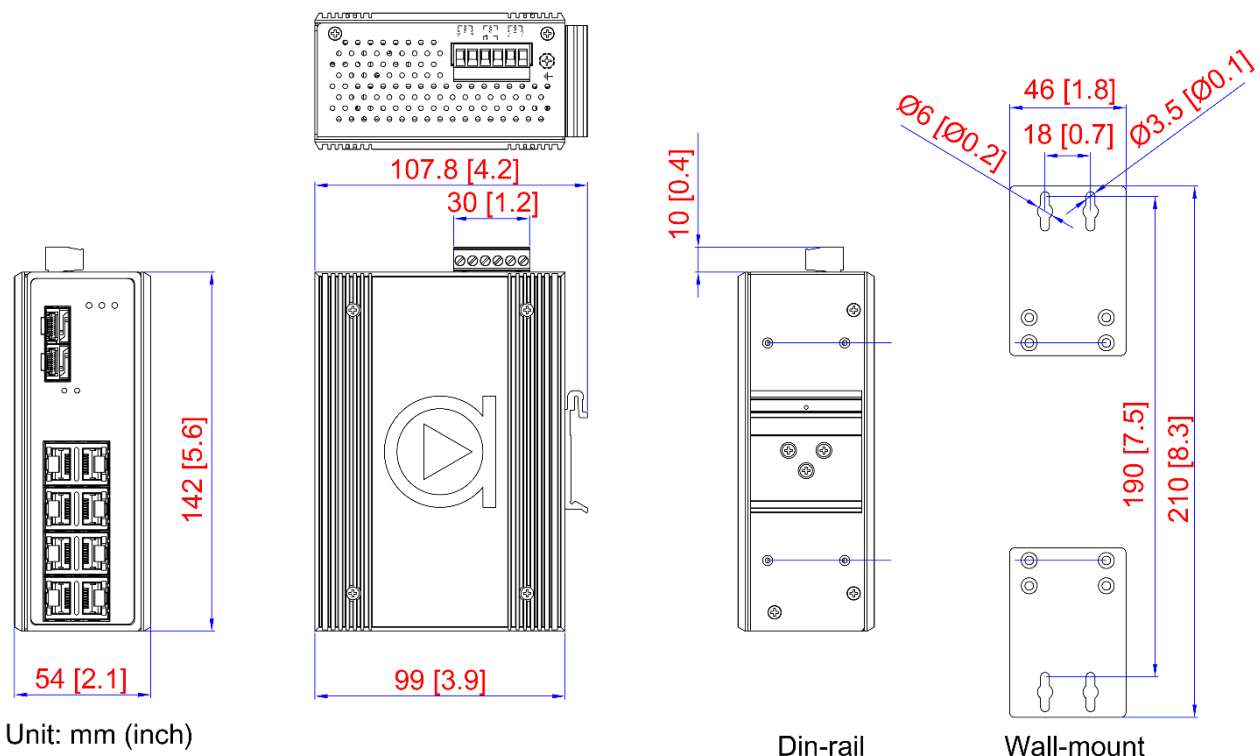
- ▶ Supports 8\*10/100/1000Tx IEEE 802.3af/at Compliant with 30W/Port and 2\*10G SFP+ Slots
- ▶ Store-and-Forward Switching Architecture
- ▶ 56Gbps Back-Plane (Switching Fabric)
- ▶ 16K MAC Address Table
- ▶ 9.6 Kbytes Jumbo Frame Support
- ▶ Redundant Power Input Design: 48~55VDC
- ▶ Built-in 1 Relay Output for Power Failure Warning
- ▶ IP30 Rugged Metal Case Design
- ▶ DIN-Rail and Wall Mount Support Included
- ▶ Operating Temperature Range: -40°C~65°C
- ▶ 5-Year Warranty

## INTRODUCTION

Antaira Technologies' LNP-1002G-10G-SFP are industrial gigabit PoE+ unmanaged Ethernet switches featuring 8\*10/100/1000Tx Gigabit Ethernet ports that support IEEE802.3at for a maximum of 30W/port. The LNP-1002G-10G-SFP is designed with 2\*10G SFP+ slots that provide options for long-distance fiber connections. These Ethernet switches are designed with high EFT and ESD protection and support standard operating temperatures from -40° to 65°C.

The LNP-1002G-10G-SFP are IP30 rated and DIN-rail mountable. They also provide Ethernet connectivity with PoE functions for outdoor or harsh industrial automation application environments, such as security surveillance, ITS-traffic monitoring systems, oil/gas and mining, facility management for power/utility, water wastewater treatment plants, and lastly, automated production lines in factory automation.

## DIMENSIONS



## SPECIFICATIONS

|                            |  |
|----------------------------|--|
| <b>Technology</b>          |  |
| <b>Standards</b>           | IEEE 802.3 10Tx Ethernet   |
|                            | IEEE 802.3u 100Tx Fast Ethernet  |
|                            | IEEE 802.3ab 1000Tx Gigabit Ethernet   |
|                            | IEEE 802.3ae 10 Gigabit Ethernet   |
|                            | IEEE 802.3af/at Power over Ethernet  |
| <b>Processing Type</b>     | Store and Forward  |
| <b>Protocol</b>            | CSMA/CD  |
| <b>Flow Control</b>        | IEEE 802.3x back pressure flow control   |
| <b>Switch Properties</b>   |  |
| <b>Switch Architecture</b> | Back-Plane (Switching Fabric): 56.0Gbps<br>14,880pps for 10Base-T Ethernet<br>148,800pps for 100Base-T Fast Ethernet<br>1,488,000pps for 1000Base-T Gigabit Ethernet   |
| <b>Transfer Rate</b>       | 14,880,000pps for 10 Gigabit Ethernet Port   |
| <b>Packet Buffer</b>       | 8Mbits   |
| <b>Jumbo Frame</b>         | 9.6 Kbytes   |
| <b>MAC Table Size</b>      | 16K  |
| <b>Port Interface</b>      |  |
| <b>Ethernet Port</b>       | 8*10/100/1000Tx (PSE: 30W/Port)<br>Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection  |
| <b>SFP Port</b>            | 2*10G SFP+ slots   |
| <b>PoE Pin Out</b>         | V+, V+, V-, V-, for pin 1, 2, 3, 6 (End-span, Mode A)<br>System: Power 1, Power 2, Fault<br>Ethernet Ports: On-Link/Flash-data transmitting<br>PoE: On-connected to PD devices<br>SFP: Link/Active                   |
| <b>LED Indicators</b>      |  |
| <b>Network Cable</b>       | 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)<br>100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)<br>1000BaseTX: 4-pair UTP/STP Cat.5/5E cable EIA/TIA-568 100-ohm (100m) |

|  |   |
|--|---|
| <b>Mechanical Characteristics</b>        |   |
| <b>Housing</b>                           | Metal, IP30 protection  |
| <b>Dimension</b>                         | 54 x 142 x 99 mm  |
| <b>Weight</b>                            | Unit: 2.39 lbs.; Shipping: 3.01 lbs.                          |
| <b>Mounting</b>                          | DIN-Rail mounting, Wall mounting                              |
| <b>Power Requirement</b>                 |   |
| <b>Input Voltage</b>                     | 48-55VDC 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>Power Reverse Polarity Protection</b> | Present   |
| <b>System Power Consumption</b>          | 9.3W  |
| <b>Max PoE Power Budget</b>              | 240W  |
| <b>PoE Power Output</b>                  | 30W max. per PoE port   |
| <b>Environmental Limits</b>              |   |
| <b>Operating Temperature</b>             | -40°C to 65°C   |
| <b>Storage Temperature</b>               | -40°C ~ 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, CE EN55032/EN61000-6-4 Class A |
| <b>EMS</b>                               | CE EN55035/EN61000-6-2 Class A, 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>LNP-1002G-10G-SFP</b> | 10-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 8*10/100/1000Tx (30W/Port) and 2*10G SFP+ Slots |
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