

# LNP-0501-24 Series

5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4\*10/100Tx (PSE:30W/Port) + 1\*100Fx, 12~36VDC Power Input (Built-in Voltage Booster)



## Features

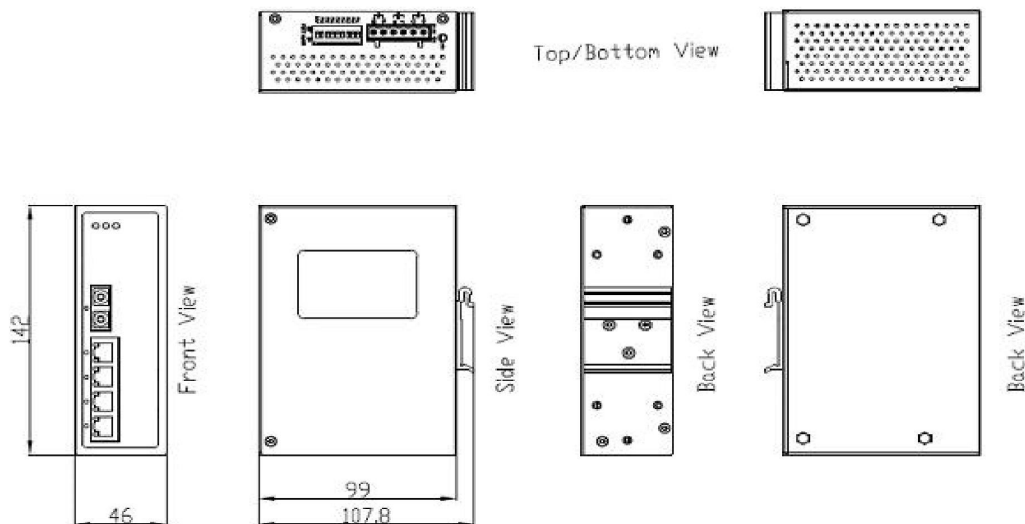
- ▶ 4-Port IEEE 802.3at Compliant PoE+ Function with 30W/Port
- ▶ 1-Port 100Fx SC/ST Type Connector (Multi-mode 2Km, Single-Mode 30Km)
- ▶ Supports Auto MDI/MDI-X Function
- ▶ Store-and-Forward Switching Architecture
- ▶ 2K MAC Address Table
- ▶ Surge Protection: 2,000 VDC Support
- ▶ ESD Protection: 6,000 VDC Support
- ▶ Redundant Power Input Design – 12~36VDC
- ▶ Built-in 1 Relay Output for Power Failure Warning
- ▶ IP30 Rugged Metal Case Design
- ▶ DIN-Rail and Wall Mount Support
- ▶ Operating Temperature Range - STD: -10° to 70°C, EOT: -40° to 75°C
- ▶ 5-Year Warranty

## INTRODUCTION

Antaira Technologies' LNP-0501-24 series is an industrial PoE+ unmanaged Ethernet switch featuring 4\*10/100Tx Fast Ethernet RJ45 ports and 1\*100Fx fiber port with SC or ST type connectors and an option for multi-mode (2Km) or single-mode (30Km). Each Ethernet port supports an IEEE 802.3at high power PoE+ output up to 30W per port, making it ideal for applications that demand a PoE power source. This product series provides a low voltage input range of 12~36VDC with an internal voltage booster to support a 48VDC PoE power output.

The LNP-0501-24 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 Ethernet connectivity with PoE functions and a fiber connection for mobile surveillance applications utilizing a low voltage power source as a battery, and for any other industrial automation field sites needing a 24VDC power source, such as, security surveillance, 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 10BaseTx Ethernet<br>IEEE 802.3u 100BaseTx Fast Ethernet<br>IEEE 802.3at PoE+ |
| <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): 1.0Gbps   |
| <b>Transfer Rate</b>              | 14,880pps for Ethernet Port<br>148,800pps for Fast Ethernet Port                         |
| <b>Jumbo Frame</b>                | -  |
| <b>MAC Table Size</b>             | 2K   |
| <b>Interface</b>                  |  |
| <b>Ethernet Port</b>              | 4*RJ45 Ports w/10/100Tx (PSE: 30W/Port)  |
| <b>Fiber Port</b>                 | 1*100Fx (SC/ST); Multi-mode 2Km,<br>Single-mode 30Km                                     |
| <b>Wavelength</b>                 | 1310nm   |
| <b>PoE Pin Out</b>                | V+, V+, V-, V- for pins 1,2,3,6<br>Endspan, MDI Alternative A                            |
| <b>Network Cable</b>              | 10Base Tx: 2-pair UTP/STP Cat. 3,4,5<br>100Base Tx: 2-pair UTP/STP Cat. 5                |
| <b>Mechanical Characteristics</b> |  |
| <b>Housing</b>                    | Metal, IP30 Protection   |
| <b>Dimensions</b>                 | 46 x 142 x 99 mm   |
| <b>Weight</b>                     | Unit: 1.68 lbs; Shipping: 2.0 lbs  |
| <b>Mounting</b>                   | DIN-Rail or Wall mounting  |

|   |  |
|---|--|
| <b>Power Requirement</b>                    |  |
| <b>Input Voltage &amp; Power Connection</b> | 12~36VDC, 6-Pin Terminal Block<br>Redundant Input          |
| <b>Reverse Polarity Protection</b>          | Present  |
| <b>Overload Current Protection</b>          | Present  |
| <b>PoE Power Output</b>                     | Max. 30W per port  |
| <b>Power Consumption</b>                    | 145W @12~36VDC   |
| <b>Environmental Limits</b>                 |  |
| <b>Operating Temperature</b>                | STD: -10 to 70°C<br>EOT: -40 to 75°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 Class A  |
| <b>EMS</b>                                  | IEC6100-4-2,3,4,5,6,8<br>IEC6100-6-2,4                     |
| <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 508,<br>UL Class 1 Division 2,<br>ISA 12.12.01 |
| <b>Warranty</b>                             | 5 Years  |

## ORDERING INFO

|                             |   |
|-----------------------------|---|
| <b>LNP-0501-M-24</b>        | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Multi-mode Fiber (2Km), SC Connector, 12~36VDC Input                     |
| <b>LNP-0501-M-24-T</b>      | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Multi-mode Fiber (2Km), SC Connector, 12~36VDC Input; EOT: -40 to 75°C   |
| <b>LNP-0501-ST-M-24</b>     | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Multi-mode Fiber (2Km), ST Connector, 12~36VDC Input                     |
| <b>LNP-0501-ST-M-24-T</b>   | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Multi-mode Fiber (2Km), ST Connector, 12~36VDC Input; ; EOT: -40 to 75°C |
| <b>LNP-0501-S3-24</b>       | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Single-mode Fiber (30Km), SC Connector, 12~36VDC Input                   |
| <b>LNP-0501-S3-24-T</b>     | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Single-mode Fiber (30Km), SC Connector, 12~36VDC Input; EOT: -40 to 75°C |
| <b>LNP-0501-ST-S3-24</b>    | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Single-mode Fiber (30Km), ST Connector, 12~36VDC Input                   |
| <b>LNP-0501-ST-S3-24-T</b>  | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Single-mode Fiber (30Km), ST Connector, 12~36VDC Input; EOT: -40 to 75°C |
| <b>Optional Accessories</b> |   |
| <b>DR-45-24</b>             | 45W Industrial Din Rail Power Supply (24VDC)  |
| <b>DR-75-24</b>             | 75W Industrial Din Rail Power Supply (24VDC)  |
| <b>SDR-120-24</b>           | 120W Industrial Din Rail Power Supply (24VDC)   |
| <b>SDR-240-24</b>           | 240W Industrial Din Rail Power Supply (24VDC)   |



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