# LNP-0501 Series

5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (PSE:30W/Port) + 1*100Fx

## Features
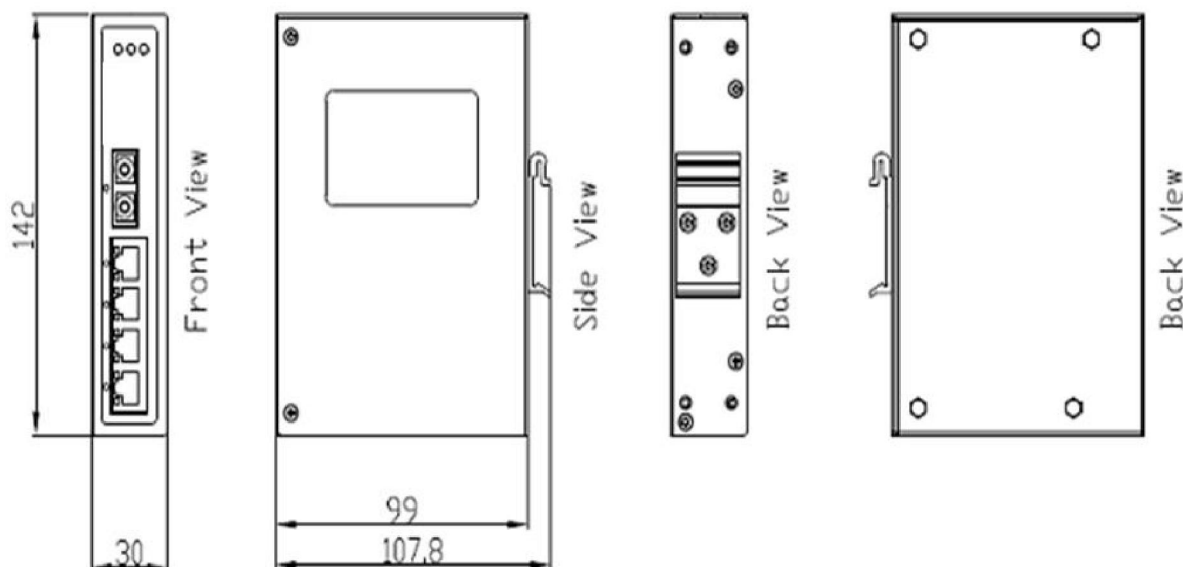
▶ 4-Port IEEE 802.3at Compliant PoE+ Function with 30W/Port
▶ 1-Port 100Fx SC/ST Type Connector (Multi-mode 2Km, Single-Mode 30Km)
▶ Supports Auto MDI/MDI-X Function
▶ Store-and-Forward Switching Architecture
▶ 2K MAC Address Table
▶ Surge Protection: 2,000 VDC Support
▶ ESD Protection: 6,000 VDC Support
▶ Redundant Power Input Design – 48~55VDC
▶ 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 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.

The LNP-0501 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 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

| Technology | |
|---|---|
| **Standards** | IEEE 802.3 10BaseTx Ethernet<br>IEEE 802.3u 100BaseTx Fast Ethernet<br>IEEE 802.3at PoE+ |
| **Processing Type** | Store and Forward |
| **Protocol** | CSMA/CD |
| **Flow Control** | IEEE 802.3x back pressure flow control |
| **Switch Properties** | |
| **Switch Architecture** | Back-Plane (Switching Fabric): 1.0Gbps |
| **Transfer Rate** | 14,880pps for Ethernet Port<br>148,800pps for Fast Ethernet Port |
| **Jumbo Frame** | - |
| **MAC Table Size** | 2K |
| **Interface** | |
| **Ethernet Port** | 4*RJ45 Ports w/10/100Tx (PSE: 30W/Port) |
| **Fiber Port** | 1*100Fx (SC/ST); Multi-mode 2Km,<br>Single-mode 30Km |
| **Wavelength** | 1310nm |
| **PoE Pin Out** | V+, V+, V-, V- for pins 1,2,3,6<br>Endspan, MDI Alternative A |
| **Network Cable** | 10Base Tx: 2-pair UTP/STP Cat. 3,4,5<br>100Base Tx: 2-pair UTP/STP Cat. 5 |
| **Mechanical Characteristics** | |
| **Housing** | Metal, IP30 Protection |
| **Dimensions** | 30 x 142 x 99 mm |
| **Weight** | Unit: 1.1 lbs; Shipping: 1.45 lbs |
| **Mounting** | DIN-Rail or Wall mounting |

| Power Requirement | |
|---|---|
| **Input Voltage & Power Connection** | 48~55VDC, 6-Pin Terminal Block<br>Redundant Input |
| **Reverse Polarity Protection** | Reverse Polarity Protection |
| **Overload Current Protection** | Present |
| **PoE Power Output** | 25W@48VDC (per PoE port);<br>30W@51~55VDC (per PoE port) |
| **Power Consumption** | 110W@48VDC;<br>130W@51~55VDC |
| **Environmental Limits** | |
| **Operating Temperature** | STD: -10° to 70°C<br>EOT: -40° to 75°C |
| **Storage Temperature** | -40°C ~ 85°C |
| **Ambient Relative Humidity** | 5 to 95%, (non-condensing) |
| **Regulatory Approvals** | |
| **EMI** | FCC Class A |
| **EMS** | IEC6100-4-2,3,4,5,6,8<br>IEC6100-6-2,4 |
| **Free Fall** | IEC60068-2-32 |
| **Shock** | IEC60068-2-27 |
| **Vibration** | IEC60068-2-6 |
| **Green** | RoHS Compliant |
| **Certifications** | FCC, CE, UL 508,<br>UL Class 1 Division 2,<br>ISA 12.12.01 |
| **Warranty** | 5 Years |

# ORDERING INFO

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

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