

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

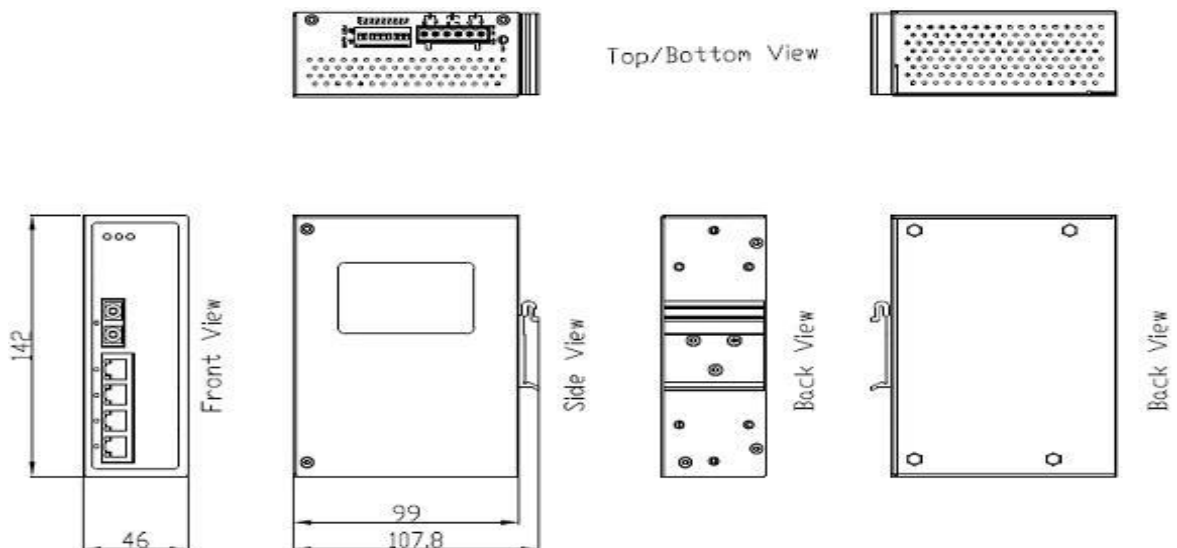
- ▶ 4-Port IEEE 802.3at Compliant PoE+ Function with 30W/Port
- ▶ 1-Port 100Fx SC/ST Type Connector (Multi-mode 2Km, Single-Mode 30Km)
- ▶ Supports Auto MDI/MDI-X Function
- ▶ Store-and-Forward Switching Architecture
- ▶ 2K MAC Address Table
- ▶ Surge Protection: 2,000 VDC Support
- ▶ ESD Protection: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

| Technology | |
|----------------------------|--|
| Standards | IEEE 802.3 10BaseTx Ethernet IEEE 802.3u 100BaseTx Fast Ethernet 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 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, Single-mode 30Km |
| Wavelength | 1310nm |
| PoE Pin Out | V+, V+, V-, V- for pins 1,2,3,6 Endspan, MDI Alternative A |
| Network Cable | 10Base Tx: 2-pair UTP/STP Cat. 3,4,5 100Base Tx: 2-pair UTP/STP Cat. 5 |
| Mechanical Characteristics | |
| Housing | Metal, IP30 Protection |
| Dimensions | 46 x 142 x 99 mm |
| Weight | Unit: 1.68 lbs; Shipping: 2.0 lbs |
| Mounting | DIN-Rail or Wall mounting |

| Power Requirement | |
|---|--|
| Input Voltage & Power Connection | 12~36VDC, 6-Pin Terminal Block Redundant Input |
| Reverse Polarity Protection | Present |
| Overload Current Protection | Present |
| PoE Power Output | Max. 30W per port |
| Power Consumption | 90W@12VDC, 120W@36VDC |
| Environmental Limits | |
| Operating Temperature | STD: -10 to 70°C 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 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, UL Class 1 Division 2, ISA 12.12.01 |
| Warranty | 5 Years |

ORDERING INFO

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|----------------------------|---|
| LNP-0501-M-24 | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Multi-mode Fiber (2Km), SC Connector, 12~36VDC Input |
| LNP-0501-M-24-T | 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 |
| LNP-0501-ST-M-24 | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Multi-mode Fiber (2Km), ST Connector, 12~36VDC Input |
| LNP-0501-ST-M-24-T | 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 |
| LNP-0501-S3-24 | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Single-mode Fiber (30Km), SC Connector, 12~36VDC Input |
| LNP-0501-S3-24-T | 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 |
| LNP-0501-ST-S3-24 | 5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Single-mode Fiber (30Km), ST Connector, 12~36VDC Input |
| LNP-0501-ST-S3-24-T | 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 |

Optional Accessories

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|-------------------|---|
| 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) |

TO LEARN MORE - CONTACT:



Metromatics

sales@metromatics.com.au | www.metromatics.com.au

Brisbane 07 3868 4255 | Melbourne 03 9872 4592 | Sydney 02 9460 4355