

# LNP-0501 Series

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



## Features

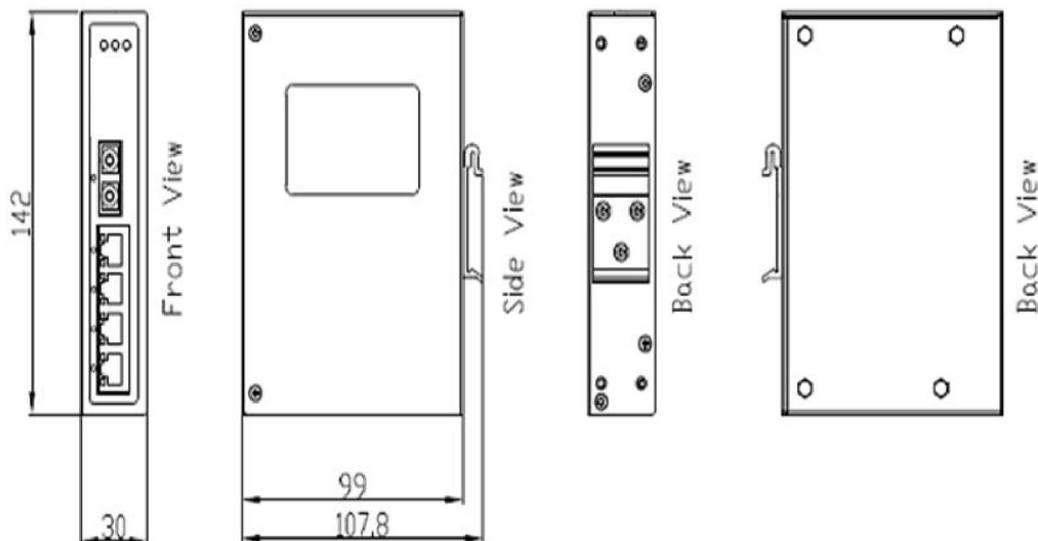
- ▶ 4-Port IEEE 802.3at Compliant PoE+ Function with 30W/Port
- ▶ 1-Port 100Fx SC/ST Type Connector (Multi-mode 2Km, Single-Mode 30Km)
- ▶ Supports Auto MDI/MDI-X Function
- ▶ Store-and-Forward Switching Architecture
- ▶ 2K MAC Address Table
- ▶ Surge Protection: 2,000 VDC Support
- ▶ ESD Protection: 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	
<b>Standards</b>	IEEE 802.3 10BaseTx Ethernet IEEE 802.3u 100BaseTx Fast Ethernet 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
Switch Properties	
<b>Switch Architecture</b>	Back-Plane (Switching Fabric): 1.0Gbps
<b>Transfer Rate</b>	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port
<b>Jumbo Frame</b>	-
<b>MAC Table Size</b>	2K
Interface	
<b>Ethernet Port</b>	4*RJ45 Ports w/10/100Tx (PSE: 30W/Port)
<b>Fiber Port</b>	1*100Fx (SC/ST); Multi-mode 2Km, Single-mode 30Km
<b>Wavelength</b>	1310nm
<b>PoE Pin Out</b>	V+, V+, V-, V- for pins 1,2,3,6 Endspan, MDI Alternative A
<b>Network Cable</b>	10Base Tx: 2-pair UTP/STP Cat. 3,4,5 100Base Tx: 2-pair UTP/STP Cat. 5
Mechanical Characteristics	
<b>Housing</b>	Metal, IP30 Protection
<b>Dimensions</b>	30 x 142 x 99 mm
<b>Weight</b>	Unit: 1.1 lbs; Shipping: 1.45 lbs
<b>Mounting</b>	DIN-Rail or Wall mounting

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

## ORDERING INFO

<b>LNP-0501-M</b>	5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Multi-mode Fiber (2Km), SC Connector
<b>LNP-0501-M-T</b>	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
<b>LNP-0501-ST-M</b>	5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Multi-mode Fiber (2Km), ST Connector
<b>LNP-0501-ST-M-T</b>	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
<b>LNP-0501-S3</b>	5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Single-mode Fiber (30Km), SC Connector
<b>LNP-0501-S3-T</b>	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
<b>LNP-0501-ST-S3</b>	5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) + 1*100Fx Single-mode Fiber (30Km), ST Connector
<b>LNP-0501-ST-S3-T</b>	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	
<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)

## Assured Systems

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