LNP-0500-24 Series

5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) and 1*10/100Tx, 12~36VDC Input
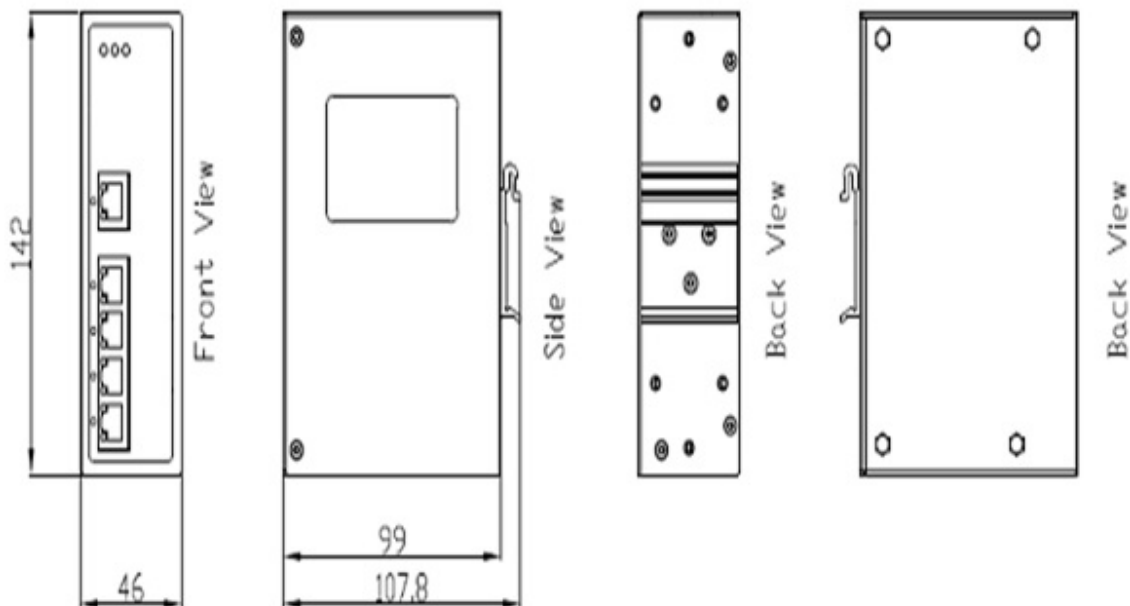
Features

► **Network Broadcast Storm Protection**
► **4-Port IEEE 802.3at Compliant PoE+ Function with 30W/Port**
► **1-Port 10/100Tx Fast Ethernet**
► **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 Port Break Alarm**
► **IP30 Rugged Aluminum 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's LNP-0500 series switch is a smart 5-port Industrial Unmanaged Ethernet Switch supporting IEEE-802.3at compliance (Power-over-Ethernet Plus) on ports 1 to 4. The switch is classified as power sourcing equipment (PSE), and when used in this way, the LNP-0500 series switch enables centralization of the power supply and provides up to 30 watts of power per port. The LNP-0500 can be used to power IEEE 802.3af or 802.3at compliant power devices (PD), eliminating the need for additional wiring, and support IEEE 802.3/802.3u/802.3x with 10/100BTx, full or half duplex, MDI/MDI-X auto sensing to provide an economical solution for the Industrial Ethernet Network. In addition, the Network Broadcast Storm Protection and built-in relay warning function alerts network engineers when power failures or port breaks occur.

DIMENSIONS

SPECIFICATIONS

Technology

Standards	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3x Flow Control and Back-Pressure IEEE 802.3at Power over Ethernet
Processing Type	Store-and-Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x flow control, back pressure flow control

Switch Properties

Switch Architecture	Back-Plane (Switching Fabric): 1.0Gbps Packet Throughput Ability (Full-Duplex): 1.488Mpps @ 64bytes
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port
MAC Table Size	2K

Interface

Ethernet Port	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection 4*10/100Tx (PoE+) + 1*10/100Tx
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)
LED Indicators	Power 1, Power 2, and Fault

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, Wall Mounting (Optional)

Power Requirement

Input Voltage	12~36VDC, Redundant Input
Power Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Overload Current Protection	Present
PoE Power Output	30W @ 53VDC (per PoE port)
Power Consumption	145 Watts @ 12~36VDC

Environmental Limits

Operating Temperature	STD: -10° to 70°C EOT: -40° to 75°C
Storage Temperature	-40°~85°C
Ambient Relative Humidity	5 to 95%, (Non-condensing)

Regulatory Approvals

EMI	FCC Class A
EMS	EN6100-4-2,3,4,5,6,8 EN6100-6-2,4
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

LNP-0500-24	5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) and 1*10/100Tx, 12~36VDC Input
LNP-0500-24-T	5-Port Industrial PoE+ Unmanaged Ethernet Switch, with 4*10/100Tx (30W/Port) and 1*10/100Tx, 12~36VDC Input, EOT: -40° to 75°C

Optional Accessories

DR-75-24	75 Watt Industrial Single Output DIN Rail Power Supply - 24 VDC / 3.2 Amps
SDR-120-24	120 Watt Industrial Slim High-Efficiency Single Output DIN Rail Power Supply - 24 VDC / 5.0 Amps
SDR-240-24	240 Watt Industrial Slim High-Efficiency Single Output DIN Rail Power Supply - 24 VDC / 10.0 Amps
DIN-RAIL-10	35mm Steel DIN-Rail Track – 10 Inches Long
DIN-RACK-2U	DIN-Rail to 19" Rack Mount Adapter for all DIN-Rail Mountable Products, 2U Height