LNP-0500G-bt Series

5-Port Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, with 4*10/100/1000Tx (90W/Port) and 1*10/100/1000Tx

Features
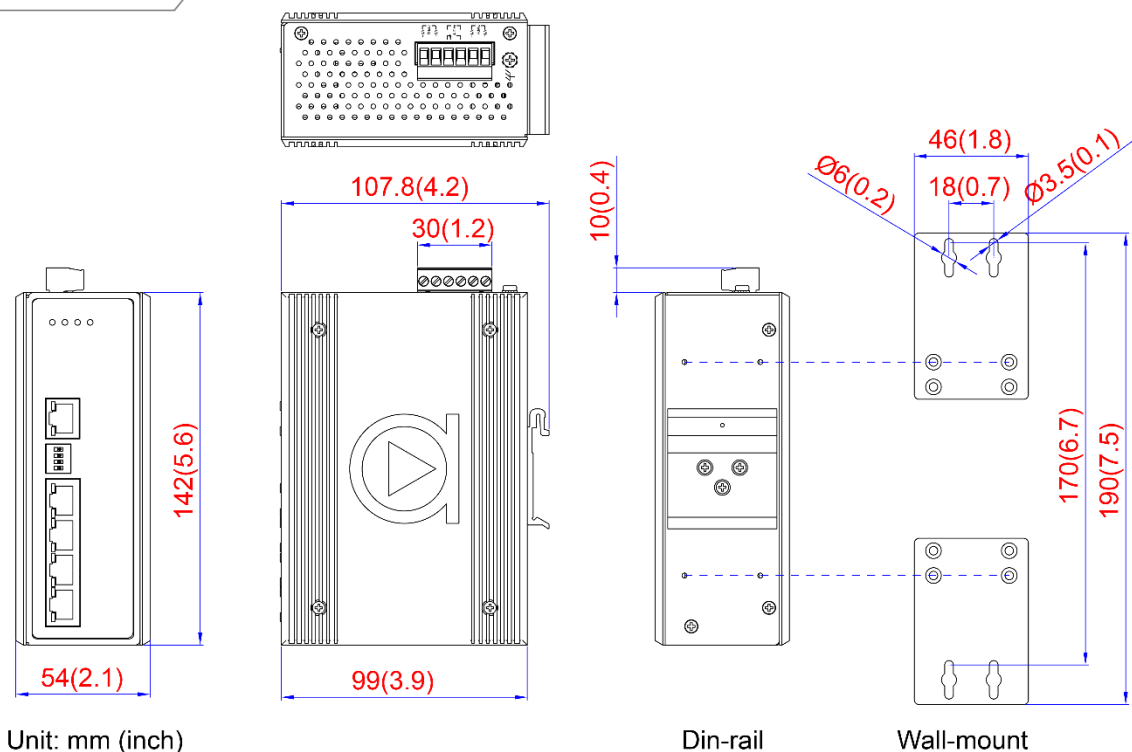
▶ **Supports 4*10/100/1000Tx IEEE 802.3bt Compliant with 90W/Port and 1*10/100/1000Tx Ethernet Port**
▶ **Store-and-Forward Switching Architecture**
▶ **10Gbps Back-Plane (Switching Fabric)**
▶ **8K MAC Address Table**
▶ **10.0Kbytes Jumbo Frame Support**
▶ **Redundant Power Input Design: 48~55VDC**
▶ **Built-in 1 Relay Output for Power Failure Warning**
▶ **IP30 Rugged Metal Case Design**
▶ **DIN-Rail and Wall Mount Support Included**
▶ **Operating Temp. - STD: -10°~65°C, EOT: -40°~75°C**
▶ **5-Year Warranty**

INTRODUCTION

Antaira Technologies' LNP-0500G-bt series is an industrial gigabit PoE++ unmanaged Ethernet switch featuring 4*10/100/1000Tx Gigabit Ethernet ports that support IEEE802.3bt for a maximum of 90W/port and 1*10/100/1000Tx Ethernet port. The LNP-0500G-bt is an ideal solution for rapid, unmanaged gigabit network expansion with PoE++ capabilities.

The LNP-0500G-bt series is IP30 rated and DIN-rail mountable. There are also two operating temperature models for either a standard temperature range (STD: -10°C to 65°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides Ethernet connectivity with PoE functions 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

107.8(4.2)
30(1.2)
10(0.4)
142(5.6)
54(2.1)
99(3.9)
46(1.8)
Ø6(0.2)
18(0.7)
Ø3.5(0.1)
170(6.7)
190(7.5)

Unit: mm (inch)   Din-rail   Wall-mount

SPECIFICATIONS

Technology

Standards	IEEE 802.3 10Tx Ethernet IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3at/af/bt Power over Ethernet
Processing Type	Store and Forward
Flow Control	IEEE 802.3x back pressure flow control

Switch Properties

Switch Architecture	Back-Plane (Switching Fabric): 10.0Gbps
Transfer Rate	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for 1000Base-T Gigabit Ethernet
Packet Buffer	1Mbit
Jumbo Frame	10Kbytes
MAC Table Size	8K

Port Interface

Ethernet RJ45 Port	4*10/100/1000Tx (PSE: 90W/Port) + 1*10/100/1000Tx auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
PoE Pin Out	V-, V-, V+, V+, for pin 1, 2, 3, 6 V+, V+, V-, V-, for pin 4, 5, 7, 8
DIP Switch	Control PoE Function by Port
LED Indicators	System: Power 1, Power 2, Fault, PoE Load (P/L) Ethernet Ports: Link/Active PoE: On-connected to PD devices
Relay Contact	24VDC, 1A resistive
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5E cable EIA/TIA-568 100-ohm (100m)

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimension	54 x 142 x 99 mm
Weight	Unit: 1.85 lbs.; Shipping: 2.51 lbs.
Mounting	DIN-Rail mounting, Wall mounting

Power Requirement

Input Voltage	48~55VDC Redundant Input *For IEEE 802.3bt application, power supply not less than 53V is recommended
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Present
Power Reverse Polarity Protection	Present
Power Consumption	5W
Max PoE Power Budget	180W @48~55VDC
PoE Power Output	90W max. per PoE port
PoE Port Priority	Port 1>Port 2>Port 3>Port 4

Environmental Limits

Operating Temperature	STD: -10 to 65°C EOT: -40 to 75°C
Storage Temperature	-40°C ~ 85°C
Ambient Relative Humidity	5 to 95%, (non-condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2 Class A, IEC61000-4-2,3,4,5,6,8
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE, UL 61010-1, UL 61010-2-201
Warranty	5 Years

ORDERING INFO

LNP-0500G-bt	5-Port Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, with 4*10/100/1000Tx (90W/Port) and 1*10/100/1000Tx
LNP-0500G-bt-T	5-Port Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, with 4*10/100/1000Tx (90W/Port) and 1*10/100/1000Tx; EOT: -40°C to 75°C