LNP-1600G Series

16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx (30W/Port)
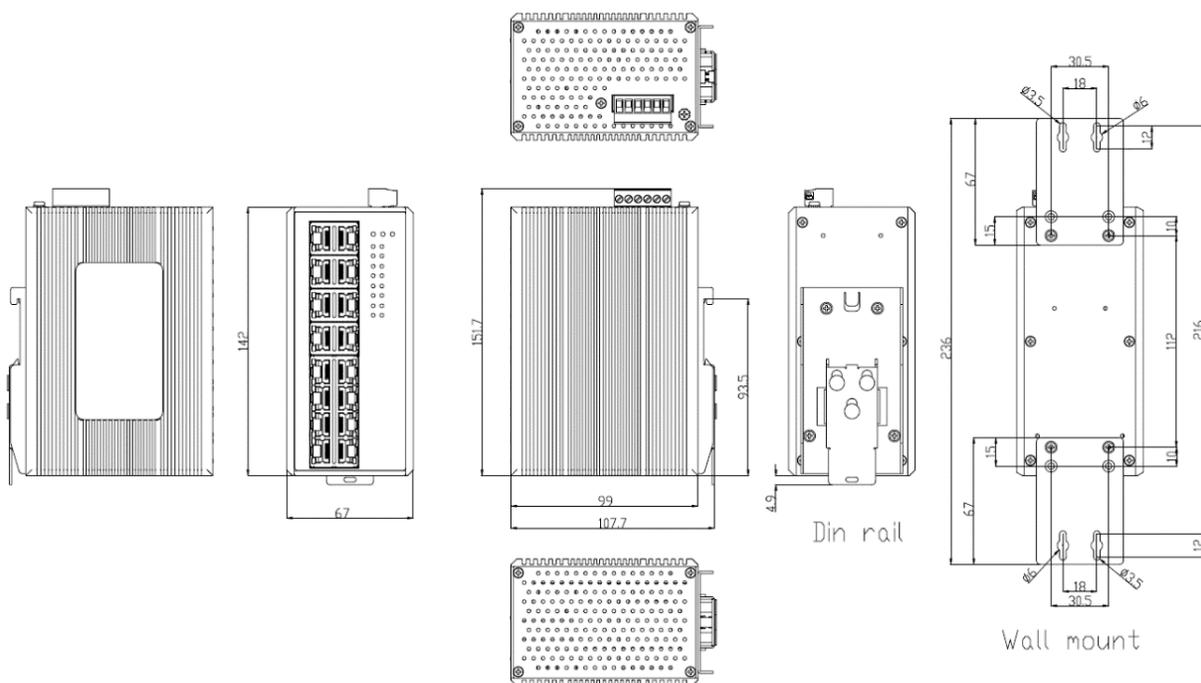

Features

▶ **Support 16*10/100/1000Tx Gigabit Ethernet with IEEE 802.3at Compliant PoE+**
▶ **Built-in Relay for Power Redundancy Failure Warning**
▶ **RJ45 Port Support Auto MDI / MDI-X Function**
▶ **Auto Negotiation Speed, Half / Full Duplex**
▶ **Store-and-Forward Switching Architecture**
▶ **Redundant Power Input: 48~55VDC**
▶ **Power Polarity Reverse Protection**
▶ **Overload Current Protection**
▶ **DIN-Rail and Wall Mount Support**
▶ **Tested at Heavy Industry EMS Level for the Best Electro-Magnetic Susceptibility**
▶ **Operating Temperature Range: STD: -10° to 65°C, EOT: -40° to 75°C**
▶ **5-Year Warranty**

INTRODUCTION

Antaira Technologies' LNP-1600G series has sixteen 10/100/1000TX RJ45 ports that support IEEE 802.3af/at PoE/PoE+ standards supplying up to 30 watts per port. It is IP30 rated designed with both DIN-Rail and wall mounting options. It is ideal for applications that require high density port connections with full high PoE power outputs and wide network bandwidth. The LNP-1600G series works well in industrial applications such as, security video surveillance, GigE machine vision, process control automation, and intelligent transportation. This product series provides high EFT and ESD protection with a redundant power input support of 48~55VDC. The unit also supports a standard operating temperature from -10° to 65°C or -40° to 75°C with the extended temperature version.

DIMENSIONS

SPECIFICATIONS

Technology

Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BaseT IEEE 802.3af/at Power over Ethernet
Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x back pressure flow control

Switch Properties

Switch Architecture	Back-Plane: Non-Blocking Switching Fabric
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port
Memory Buffer	512Kbytes
Jumbo Frame	9,216bytes
MAC Table Size	8K

Interface

Ethernet Port	16*10/100/1000T(X) with 16*PoE+, 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 (Endspan, MDI Alternative A)
LED Indicators	Power 1, Power 2, Fault Ethernet Ports: On- Link / Flashing- Data transmitting PoE: On- connected to PD devices
Network Cable	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 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	Aluminum and Metal, IP30 protection
Dimensions	67 x 142 x 99 mm (W x H x D)
Weight	Unit: 2.65 lbs. Shipping: 3.09 lbs.
Mounting	DIN-Rail, Wall Mounting (optional)

Power Requirement

Input Voltage	48 to 55VDC, Redundant Inputs
Power Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Overload Current Protection	Present
PoE Power Output	30Watts max. per PoE port
Power Consumption	13Watts for System
Max. PoE Power Budget	240Watts
Relay Contact	24VDC, 1A resistive

Environmental Limits

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

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class A
EMS	CE EN 55024 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE
Warranty	5 Years

ORDERING INFO

LNP-1600G	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx
LNP-1600G-T	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx; EOT: -40°C to 75°C

Optional Accessories

NDR-240-48	240W Industrial DIN-Rail Power Supply, 48VDC
NDR-480-48	480W Industrial DIN-Rail Power Supply, 48VDC