LNP-1600G Series

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

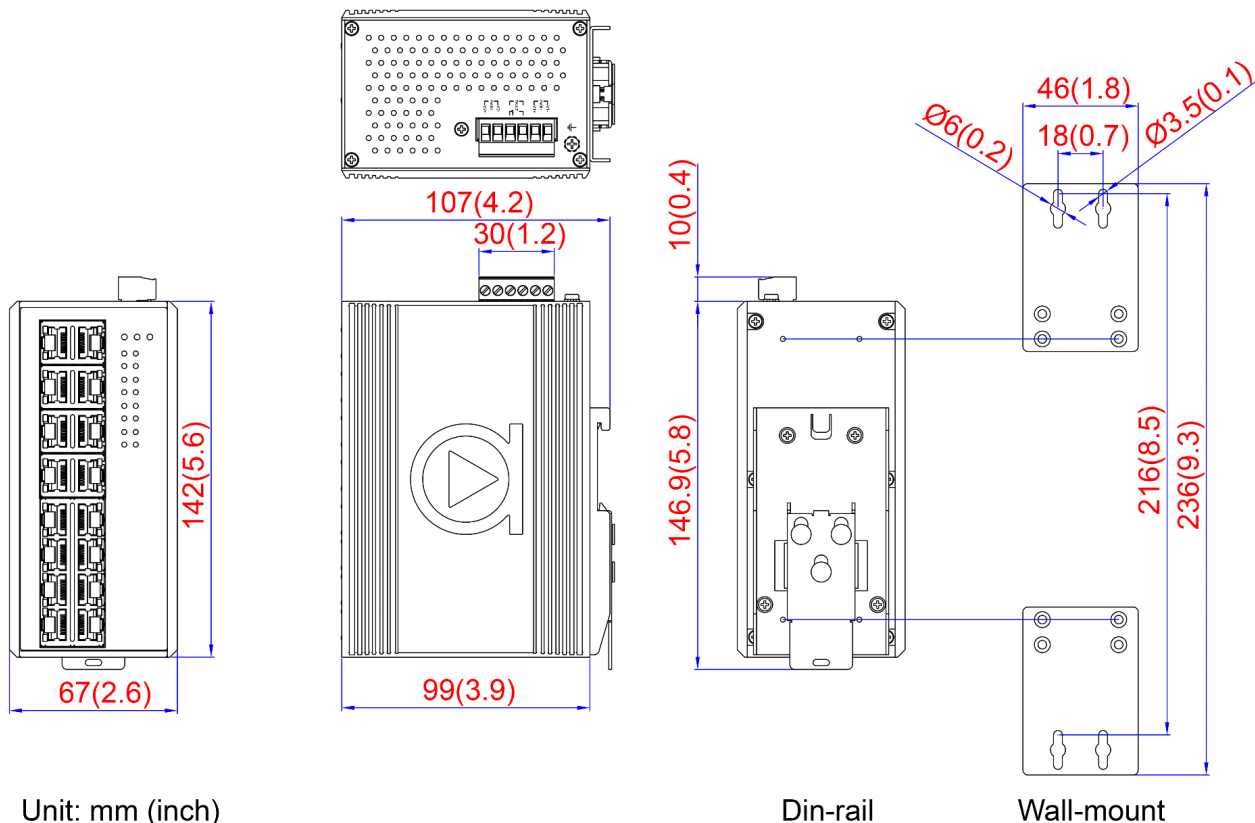## FEATURES

- ▶ **Support 16*10/100/1000Tx IEEE 802.3at Compliant with 30W/Port**
- ▶ **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 in 6-Pin Terminal Block**
- ▶ **Reverse Polarity Protection**
- ▶ **Overload Current Protection**
- ▶ **IP30 Protection**
- ▶ **DIN-Rail or Wall Mountable**
- ▶ **Operating Temperature - STD: -10°C to 65°C, EOT: -40°C to 75°C**
- ▶ **5-Year Warranty**

INTRODUCTION

Antaira Technologies' LNP-1600G Series is a 16-port industrial Gigabit PoE+ unmanaged Ethernet switch embedded with 16*10/100/1000Tx Ethernet ports that support IEEE802.3at for a maximum of 30W/port. It is IP30 rated and 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°C to 65°C or -40°C to 75°C with the extended temperature version.

DIMENSIONS

Unit: mm (inch)

Din-rail

Wall-mount

SPECIFICATIONS

TECHNOLOGY

Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3af/at Power over Ethernet

SWITCH PROPERTIES

Switch Architecture	Switching Fabric (Back-Plane): 32Gbps
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Protocol	CSMA/CD
Transfer Rate	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet
MAC Table Size	8K
Jumbo Frame	9.6Kbytes
Memory Buffer	4Mbits

PORT INTERFACE

Ethernet Port	16*10/100/1000Base-TX (30W/Port) Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
LED Indicators	System: Power 1, Power 2, Fault Ethernet ports: On-Link/Flash-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	Metal, IP30 protection
Dimension	67 x 142 x 99 mm (W x H x D)
Weight	Unit: 2.81 lbs. Shipping: 3.43 lbs.
Mounting	DIN-Rail mounting, Wall mounting

POWER REQUIREMENT

Input Voltage	48~55VDC Redundant Input
Power Connection	1 removable 6-contact terminal block
Relay Contact	24VDC, 1A resistive
Overload Current Protection	Present (Slow-Blown Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max 15 Watts full loading
PoE Pin Out	V+, V+, V-, V- for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)
PoE Power Budget	240W

ENVIRONMENTAL LIMITS

Operating Temperature	STD: -10°C to 65°C EOT: -40°C 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, 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, UL61010-1, UL61010-2-201
Warranty	5 Years

ORDERING INFORMATION

LNP-1600G	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, 16*10/100/1000Tx (30W/Port)
LNP-1600G-T	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, 16*10/100/1000Tx (30W/Port); EOT: -40°C to 75°C