

# LNP-1802G-SFP Series

18-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16\*10/100/1000Tx (30W/Port) and 2\*100/1000 SFP Slots; 48~55VDC Power Input



## Features

- ▶ Support 16\*10/100/1000Tx Gigabit Ethernet with IEEE 802.3at Compliant PoE+
- ▶ Support 2\*100/1000 Auto Sensing SFP Slots
- ▶ 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

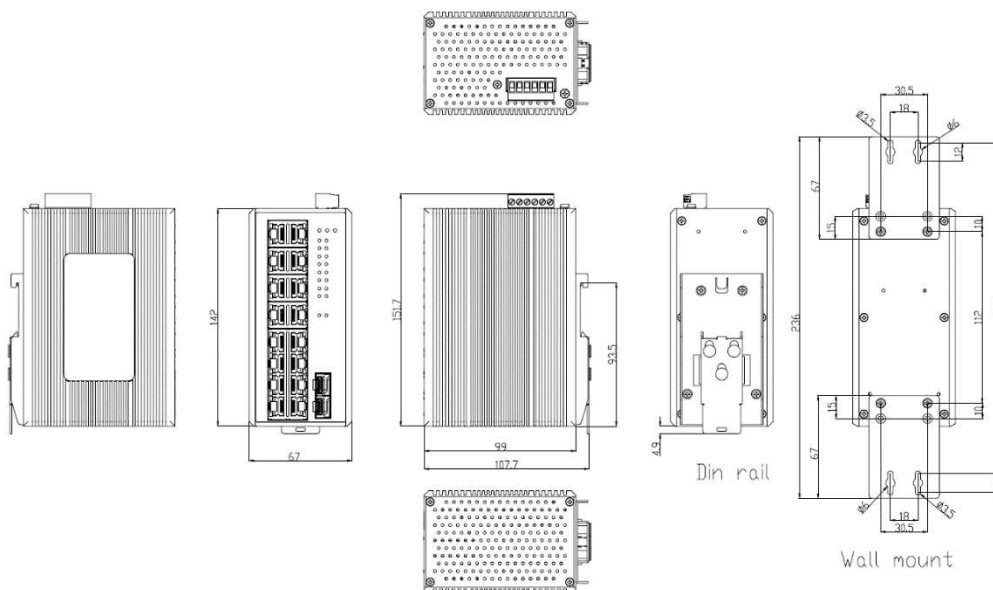
## INTRODUCTION

Antaira's LNP-1802G-SFP series industrial gigabit unmanaged Ethernet switch is IP30 rated and DIN-Rail mountable. Each unit is designed with 16 Gigabit Ethernet ports and 2 dual rates (100/1000) SFP slots for fiber connections, making it ideal for applications that demand high bandwidth and long-distance communication.

This product provides high EFT and ESD protection to prevent any unregulated voltage and is suitable for harsh environments. The unit also supports a standard operating temperature from -10° to 65°C or -40° to 75°C with the extended temperature version.

The LNP-1802G-SFP series is a perfect industrial networking product to support any application that requires high bandwidth or high-density connections, such as power/utility, water wastewater treatment, oil/gas/mining, process control automation, security access control systems, and intelligent transportation systems.

## DIMENSIONS



## SPECIFICATIONS

<b>Technology</b>	
<b>Standards</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BaseT IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3af/at Power over Ethernet
<b>Processing Type</b>	Store and Forward
<b>Protocol</b>	CSMA/CD
<b>Flow Control</b>	IEEE 802.3x back pressure flow control
<b>Switch Properties</b>	
<b>Switch Architecture</b>	Back-Plane: Non-Blocking Switching Fabric
<b>Transfer Rate</b>	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port
<b>Memory Buffer</b>	512Kbytes
<b>Jumbo Frame</b>	9,216bytes
<b>MAC Table Size</b>	8K
<b>Interface</b>	
<b>Ethernet Port</b>	16*10/100/1000T(X) with 16*PoE+, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
<b>PoE Pin Out</b>	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)
<b>Fiber Port</b>	2*100/1000 SFP Slot
<b>LED Indicators</b>	Power 1, Power 2, Fault Ethernet Ports: On- Link / Flashing- Data transmitting PoE: On- connected to PD devices SFP: Link / Active
<b>Wavelength</b>	Depends on SFP modules
<b>Network Cable</b>	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/E cable; EIA/TIA-568 100-ohm (100m)
<b>Mechanical Characteristics</b>	
<b>Housing</b>	Aluminum and Metal, IP30 protection
<b>Dimensions</b>	67 x 142 x 99 mm (W x H x D)
<b>Weight</b>	Unit: 2.65 lbs. Shipping: 3.09 lbs.
<b>Mounting</b>	DIN-Rail, Wall Mounting (optional)

<b>Power Requirement</b>	
<b>Input Voltage</b>	48 to 55VDC, Redundant Inputs
<b>Power Connection</b>	1 removable 6-contact terminal block
<b>Reverse Polarity Protection</b>	Present
<b>Overload Current Protection</b>	Present
<b>PoE Power Output</b>	30Watts max. per PoE port
<b>Power Consumption</b>	15Watts for System
<b>Max. PoE Power Budget</b>	240Watts
<b>Relay Contact</b>	24VDC, 1A resistive
<b>Environmental Limits</b>	
<b>Operating Temperature</b>	STD: -10°C to 65°C EOT: -40°C to 75°C
<b>Storage Temperature</b>	-40°C to 85°C
<b>Ambient Relative Humidity</b>	5% to 95%, (non-condensing)
<b>Regulatory Approvals</b>	
<b>EMI</b>	FCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class A
<b>EMS</b>	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)
<b>Free Fall Shock</b>	IEC60068-2-32 IEC60068-2-27
<b>Vibration</b>	IEC60068-2-6
<b>Green</b>	RoHS Compliant
<b>Certifications</b>	FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)
<b>Warranty</b>	5 Years

## ORDERING INFO

<b>LNP-1802G-SFP</b>	18-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx (30W/Port) + 2*100/1000 SFP
<b>LNP-1802G-SFP-T</b>	18-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx (30W/Port) + 2*100/1000 SFP; EOT: -40°C to 75°C

### Optional Accessories

<b>NDR-240-48</b>	240W Industrial DIN-Rail Power Supply, 48VDC
<b>NDR-480-48</b>	480W Industrial DIN-Rail Power Supply, 48VDC