

LNP-2004G-SFP Series

20-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx (30W/Port) and 4*100/1000 SFP Slots; 48~55VDC Power Input



Features

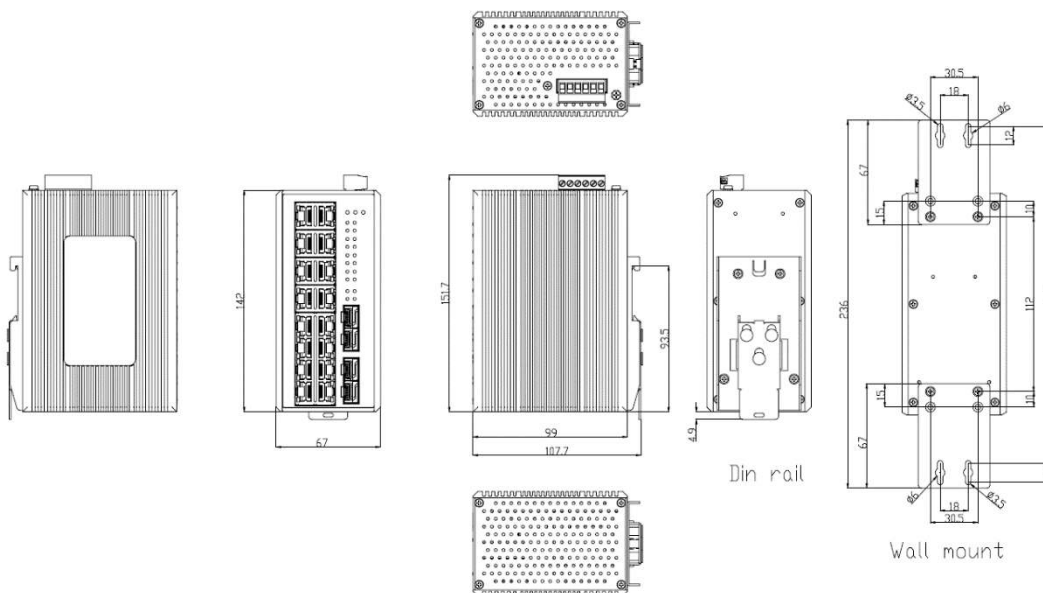
- ▶ Support 16*10/100/1000Tx Gigabit Ethernet with IEEE 802.3at Compliant PoE+
- ▶ Support 4*100/1000 Auto Sensing SFP Slots
- ▶ Built-in Relay for Power Redundancy Failure Warning
- ▶ RJ45 Port Support Auto MDI / MDI-X Function
- ▶ Auto Negotiation Speed, Half / Full Duplex
- ▶ Store-and-Forward Switching 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 Technologies' LNP-2004G-SFP series industrial PoE+ gigabit unmanaged Ethernet switch features sixteen Gigabit ports with IEEE 802.3at high power PoE (30W/Port). The LNP-2004G-SFP series also provides four dual rate 100/1000Fx SFP slots for fiber connections, making it ideal for applications that demand PoE power support, high bandwidth and long-distance communication within any harsh or outdoor environment. This product series also provides high EFT and ESD protection to prevent any unregulated voltage. There are two wide operating temperature models to support either a -10° to 65°C or -40° to 75°C environment.

The LNP-2004G-SFP series is ideal for supporting applications that require high-density PoE+ port connections, such as, security surveillance, traffic monitoring systems, facility management in power/utility, water wastewater treatment plants, oil/gas/mining, and GigE machine vision systems within factory automation.

DIMENSIONS



SPECIFICATIONS

Technology	
Standards	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
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)
Fiber Port	4*100/1000 SFP Slot
LED Indicators	Power 1, Power 2, Fault Ethernet Ports: On- Link / Flashing- Data transmitting PoE: On- connected to PD devices SFP: Link / Active
Wavelength	Depends on SFP modules
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/E 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: 2.75 lbs. Shipping: 3.31 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	16Watts 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 Shock	IEC60068-2-32
Vibration	IEC60068-2-27
Green	RoHS Compliant
Certifications	FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)
Warranty	5 Years

ORDERING INFO

LNP-2004G-SFP	20-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx (30W/Port) + 4*100/1000 SFP
LNP-2004G-SFP-T	20-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx (30W/Port) + 4*100/1000 SFP; 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