

# LNP-2004G-SFP Series

20-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, 16\*10/100/1000Tx (30W/Port) and 4\*100/1000 SFP Slots



## FEATURES

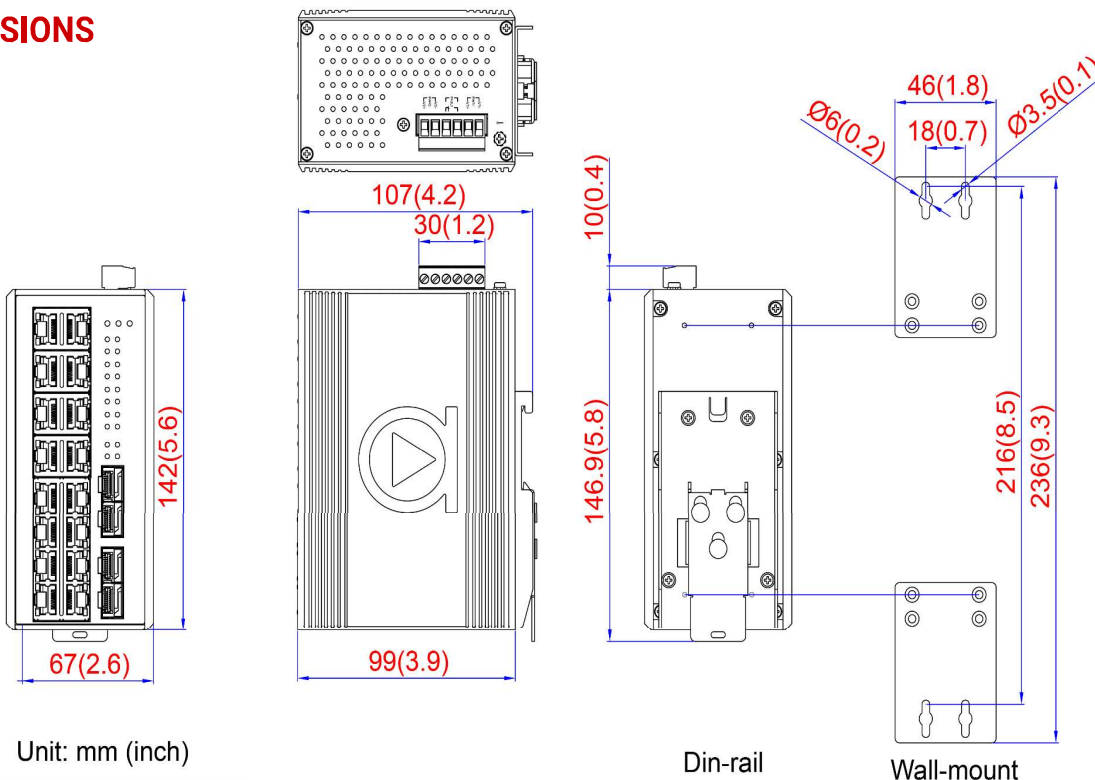
- ▶ Support 16\*10/100/1000Tx IEEE 802.3at Compliant with 30W/Port and 4\*100/1000 SFP Slot
- ▶ Built-in Relay for Power Redundancy Failure Warning
- ▶ RJ45 Port Support Auto MDI / MDI-X Function
- ▶ Auto Negotiation Speed, Half / Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Redundant 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-2004G-SFP Series is a 20-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 and 4\*100/1000 SFP Slots. 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-2004G-SFP 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



## SPECIFICATIONS

### TECHNOLOGY

<b>Standards</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3af/at Power over Ethernet
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### SWITCH PROPERTIES

<b>Switch Architecture</b>	Switching Fabric (Back-Plane): 40Gbps
<b>Processing Type</b>	Store and Forward
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control
<b>Protocol</b>	CSMA/CD
<b>Transfer Rate</b>	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet

<b>MAC Table Size</b>	8K
<b>Jumbo Frame</b>	9.6Kbytes
<b>Memory Buffer</b>	4Mbits

### PORT INTERFACE

<b>Ethernet Port</b>	16*10/100/1000Base-TX (30W/Port) Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
<b>SFP Port</b>	4*100/1000 SFP Slot
<b>LED Indicators</b>	System: Power 1, Power 2, Fault Ethernet ports: On-Link/Flash-data transmitting PoE: On-connected to PD devices SFP: Speed/Link/Active
<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. 5/5E cable; EIA/TIA-568 100-ohm (100m)

### MECHANICAL CHARACTERISTICS

<b>Housing</b>	Metal, IP30 protection
<b>Dimension</b>	67 x 142 x 99 mm (W x H x D)
<b>Weight</b>	Unit: 2.97 lbs. Shipping: 3.61 lbs.
<b>Mounting</b>	DIN-Rail mounting, Wall mounting

### POWER REQUIREMENT

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

### ENVIRONMENTAL LIMITS

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

### REGULATORY APPROVALS

<b>EMI</b>	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
<b>EMS</b>	CE EN55035/EN61000-6-2, IEC61000-4-2,3,4,5,6,8
<b>Free Fall</b>	IEC60068-2-32
<b>Shock</b>	IEC60068-2-27
<b>Vibration</b>	IEC60068-2-6
<b>Green</b>	RoHS Compliant
<b>Certifications</b>	FCC, CE, UL61010-1, UL61010-2-201
<b>Warranty</b>	5 Years

## ORDERING INFORMATION

<b>LNP-2004G-SFP</b>	20-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, 16*10/100/1000Tx (30W/Port) and 4*100/1000 SFP Slots
<b>LNP-2004G-SFP-T</b>	20-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, 16*10/100/1000Tx (30W/Port) and 4*100/1000 SFP Slots; EOT: -40°C to 75°C

## Assured Systems

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