LNP-1604G-SFP Series

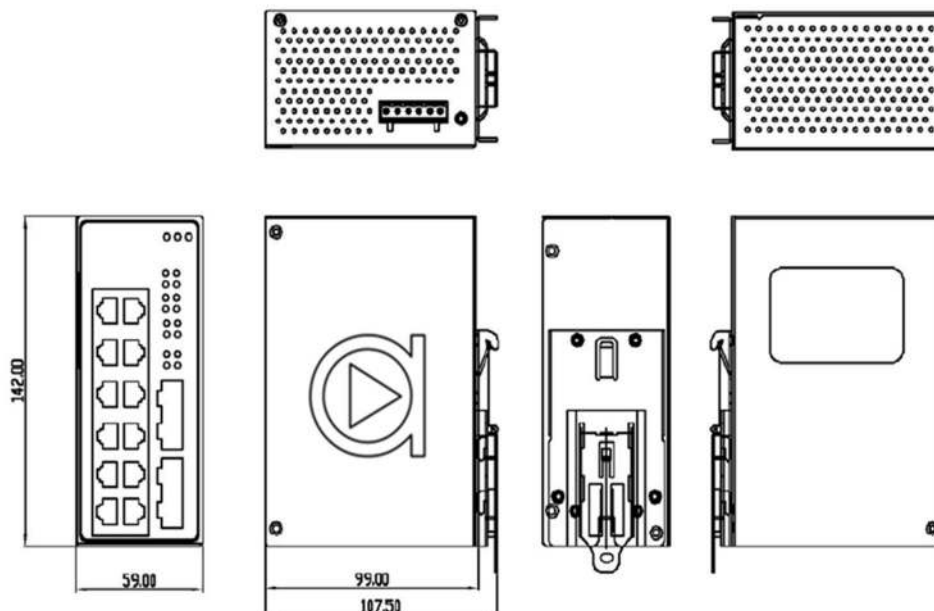**16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 12*10/100/1000Tx, and 4*100/1000 SFP Slots**

Features

▶ Supports 12*10/100/1000Tx IEEE 802.3at PoE+ Compliant (PSE: 30W/Port), + 4*100/1000 SFP Slots
▶ Store-and-Forward Switching Architecture
▶ 8K MAC Address Table
▶ Jumbo Frame Support: 12.2Kbytes
▶ Surge Protection: 2,000 VDC Support
▶ ESD Protection: 6,000 VDC Support
▶ Redundant Power Input Design: 48~55VDC
▶ Built-in 1 Relay Output for Power Failure Warning
▶ IP30 Rugged Metal Case Design
▶ DIN-Rail and Wall Mount Support
▶ Operating Temperature Range - STD: -10° to 70°C, EOT: -40° to 75°C
▶ 5-Year Warranty

INTRODUCTION

Antaira Technologies' LNP-1604G-SFP industrial gigabit PoE+ unmanaged Ethernet switch series has twelve 10/100/1000TX RJ45 ports that support IEEE 802.3af/at PoE/PoE+ standards supplying up to 30 watts per port. The device also has four dual rate (100/1000) SFP slots for fiber connection. It is IP30 rated design 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, wide network bandwidth, and multiple gigabit fiber connections. The LNP-1604G-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. There are two wide operating temperature models to support either a -10° to 70°C or -40° to 75°C environment.

DIMENSIONS

SPECIFICATIONS

Technology

Standards	IEEE 802.3 10BaseTx Ethernet IEEE 802.3u 100BaseTx Fast Ethernet IEEE 802.3ab 1000BaseTx IEEE 802.3z 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-Block Switching Fabric)
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port
Protection	EFT: 2,000VDC; ESD: 6,000VDC
Memory Buffer	4 Mbit
Jumbo Frame	12.2Kbytes
MAC Table Size	8K

Interface

Ethernet Port	12*RJ45 Ports w/10/100/1000Tx (w/PSE: 30W/port), auto negotiation speed, Full/Half duplex, and auto MDI/MDIX connection
Fiber Port	4*100/1000 SFP Slots
PoE Pin Out	V+, V+, V-, V- for pins 1,2,3,6 Endspan, MDI Alternative A
Network Cable	10Base Tx: 2-pair UTP/STP Cat. 3,4,5 100Base Tx: 2-pair UTP/STP Cat. 5 1000Base Tx: 2-pair UTP/STP Cat. 5/5E

Power Requirements

Input Voltage	48~55VDC, Redundant Input
Overload Current Protection	Present (Slow-Blown Fuse)
Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Yes
Power Consumption	16W; (376W w/full PSE load)
Relay Contact	24 VDC, 1A resistive

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions	59 x 99 x 142 mm (W*D*H)
Weight	Unit: 2.2 lbs. Shipping Weight: 2.7 lbs.
Mounting	DIN-Rail and wall mounting

Environmental Limits

Operating Temperature	STD: -10° to 70°C EOT: -40° 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 EN 55022 Class A
EMS	EN61000-4-2,3,4,5,6,8, EN61000-6-2,4
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE
Compliance	NEMA TS1/TS2 (ITS) EN50121-4 (Railway)
Warranty	5 Years

ORDERING INFO

LNP-1604G-SFP	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/ 12*10/100/1000Tx, and 4*100/1000 SFP Slot
LNP-1604G-SFP-T	16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/ 12*10/100/1000Tx, and 4*100/1000 SFP Slot; EOT: -40 to 75°C

Optional Accessories

SFP-M-T	1 Gigabit Fiber SFP Transceiver, Multi-Mode 550KM / LC/ 850NM, -40° to 85°C
SFP-S10-T	1 Gigabit Fiber SFP Transceiver, Single-Mode 10KM / LC/ 1310NM, -40° to 85°C
DR-120-48	120W Industrial Din Rail Power Supply, 48VDC
DRP-240-48	240W Industrial Din Rail Power Supply, 48VDC
DRP-480-48	480W Industrial Din Rail Power Supply, 48VDC