

Supports 4\*10/100/1000Tx IEEE 802.3bt Compliant

Store-and-Forward Switching Architecture

**10Gbps Back-Plane (Switching Fabric)** 

Redundant Power Input Design: 48~55VDC Built-in 1 Relay Output for Power Failure Warning

**DIN-Rail and Wall Mount Support Included** Operating Temp. - STD: -10°~65°C, EOT: -40°~75°C

10.0Kbytes Jumbo Frame Support

IP30 Rugged Metal Case Design

**8K MAC Address Table** 

5-Year Warranty

with 90W/Port and 1\*10/100/1000Tx Ethernet Port

# LNP-0500G-bt Series

5-Port Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, with 4\*10/100/1000Tx (90W/Port) and 1\*10/100/1000Tx

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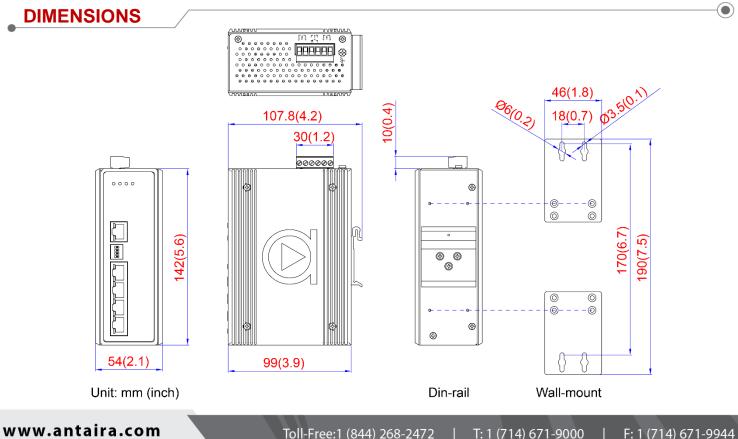
## INTRODUCTION

Antaira Technologies' LNP-0500G-bt series is an industrial gigabit PoE++ unmanaged Ethernet switch featuring 4\*10/100/1000Tx Gigabit Ethernet ports that support IEEE802.3bt for a maximum of 90W/port and 1\*10/100/1000Tx Ethernet port. The LNP-0500G-bt is an ideal solution for rapid, unmanaged gigabit network expansion with PoE++ capabilities.

**Features** 

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The LNP-0500G-bt series is IP30 rated and DIN-rail mountable. There are also two operating temperature models for either a standard temperature range (STD: -10°C to 65°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides Ethernet connectivity with PoE functions for outdoor or harsh industrial automation application environments, such as security surveillance, ITStraffic monitoring systems, oil/gas and mining, facility management for power/utility, water wastewater treatment plants, and lastly, automated production lines in factory automation.



Toll-Free:1 (844) 268-2472 T: 1 (714) 671-9000



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## SPECIFICATIONS

#### Technology

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Standards	IEEE 802.3 10Tx Ethernet IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3at/af/bt Power over Ethernet		
Processing Type	Store and Forward		
Flow Control	IEEE 802.3x back pressure flow control		
Switch Properties			
Switch Architecture	Back-Plane (Switching Fabric): 10.0Gbps		
Transfer Rate	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for 1000Base-T Gigabit Ethernet		
Packet Buffer 1Mbit			
Jumbo Frame	10Kbytes		
MAC Table Size	8K		
Port Interface			
Ethernet RJ45 Port	4*10/100/1000Tx (PSE: 90W/Port) + 1*10/100/1000Tx 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     V+, V+, V-, V-, for pin 4, 5, 7, 8			
DIP Switch	Control PoE Function by Port		
LED Indicators	System: Power 1, Power 2, Fault, PoE Load (P/L) Ethernet Ports: Link/Active PoE: On-connected to PD devices		
Relay Contact	24VDC, 1A resistive		
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 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	54 x 142 x 99 mm		
Weight	Unit: 1.85 lbs.; Shipping: 2.51 lbs.		
Mounting	DIN-Rail mounting, Wall mounting		
Power Requirement			
Input Voltage	48~55VDC Redundant Input *For IEEE 802.3bt application, power supply not less than 53V is recommended		
Power Connection	1 removable 6-contact terminal block		
Overload Current Protection	Present		
Power Reverse Polarity Protection	Present		
Power Consumption	5W		
Max PoE Power Budget	180W @48~55VDC		
PoE Power Output	90W max. per PoE port		
PoE Port Priority	Port 1>Port 2>Port 3>Port 4		
Environmental Limits			
Operating Temperature	STD: -10 to 65°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 EN55032/EN61000-6-4 Class A		
EMS	CE EN55035/EN61000-6-2 Class A, 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		
Warranty	5 Years		

## **ORDERING INFO**

LNP-0500G-bt	5-Port Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, with 4*10/100/1000Tx (90W/Port) and 1*10/100/1000Tx
LNP-0500G-bt-T	5-Port Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, with 4*10/100/1000Tx (90W/Port) and 1*10/100/1000Tx; EOT: -40°C to 75°C



# LNP-0500G-bt-24 Series

5-Port Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, with 4\*10/100/1000Tx (90W/Port) and 1\*10/100/1000Tx; 12~55VDC Power Input



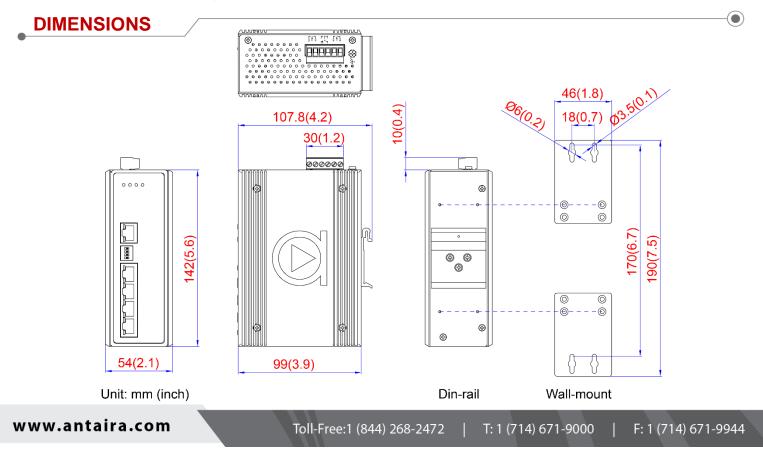
#### **Features**

- Supports 4\*10/100/1000Tx IEEE 802.3bt Compliant with 90W/Port and 1\*10/100/1000Tx Ethernet Port
- Store-and-Forward Switching Architecture
- 10Gbps Back-Plane (Switching Fabric)
- 8K MAC Address Table
- 10.0Kbytes Jumbo Frame Support
- Redundant Power Input Design: 12~55VDC
- Built-in 1 Relay Output for Power Failure Warning
- IP30 Rugged Metal Case Design
- DIN-Rail and Wall Mount Support Included
- Operating Temp. STD: -10°~65°C, EOT: -40°~75°C
- ► 5-Year Warranty

## INTRODUCTION

**Antaira Technologies' LNP-0500G-bt-24 series** is an industrial gigabit PoE++ unmanaged Ethernet switch featuring 4\*10/100/1000Tx Gigabit Ethernet ports that support IEEE802.3bt for a maximum of 90W/port and 1\*10/100/1000Tx Ethernet port. The LNP-0500G-bt is an ideal solution for rapid, unmanaged gigabit network expansion with PoE++ capabilities.

The LNP-0500G-bt-24 series is IP30 rated and DIN-rail mountable. There are also two operating temperature models for either a standard temperature range (STD: -10°C to 65°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides Ethernet connectivity with PoE functions for outdoor or harsh industrial automation application environments, such as security surveillance, ITS-traffic monitoring systems, oil/gas and mining, facility management for power/utility, water wastewater treatment plants, and lastly, automated production lines in factory automation.





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## SPECIFICATIONS

#### Technology

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Standards	IEEE 802.3 10Tx Ethernet IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3at/af/bt Power over Ethernet		
Processing Type	Store and Forward		
Flow Control	IEEE 802.3x back pressure flow control		
Switch Properties			
Switch Architecture	Back-Plane (Switching Fabric): 10.0Gbps		
Transfer Rate	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for 1000Base-T Gigabit Ethernet		
Packet Buffer 1Mbit			
Jumbo Frame	10Kbytes		
MAC Table Size	8K		
Port Interface			
Ethernet RJ45 Port	4*10/100/1000Tx (PSE: 90W/Port) + 1*10/100/1000Tx 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 V+, V+, V-, V-, for pin 4, 5, 7, 8		
DIP Switch	Control PoE Function by Port		
LED Indicators	System: Power 1, Power 2, Fault, PoE Load (P/L) Ethernet Ports: Speed/Link/Active PoE: On-connected to PD devices		
Relay Contact	24VDC, 1A resistive		
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 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	54 x 142 x 99 mm		
Weight	Unit: 1.85 lbs.; Shipping: 2.51 lbs.		
Mounting	DIN-Rail mounting, Wall mounting		
Power Requirement			
Input Voltage	12~55VDC Redundant Input		
Power Connection	1 removable 6-contact terminal block		
Overload Current Protection	Present		
Power Reverse Polarity Protection	Present		
Power Consumption	5W		
Max PoE Power Budget	90W @12VDC 180W @24~55VDC		
PoE Power Output	90W max. per PoE port		
PoE Port Priority	Port 1>Port 2>Port 3>Port 4		
Environmental Limits			
Operating Temperature	STD: -10 to 65°C EOT: -40 to 75°C		
Storage Temperature	-40°C ~ 85°C		
Ambient Relative Humidity	5 to 95%, (non-condensing)		
Regulatory Approvals			
ЕМІ	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A		
EMS	CE EN55035/EN61000-6-2 Class A, 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		
Warranty	5 Years		

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## ORDERING INFO

	5-Port Industrial Gigabit PoE++ Unmanaged Ethernet Switch, with 4*10/100/1000Tx (90W/Port) and
LNP-0500G-bt-24	1*10/100/1000Tx, 12~55VDC Power Input
LNP-0500G-bt-24-T	5-Port Industrial Gigabit PoE++ Unmanaged Ethernet Switch, with 4*10/100/1000Tx (90W/Port) and 1*10/100/1000Tx, 12~55VDC Power Input; EOT: -40°C to 75°C



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# **LNP-800AGH Series**

8-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 8\*10/100/1000Tx (30W/Port)



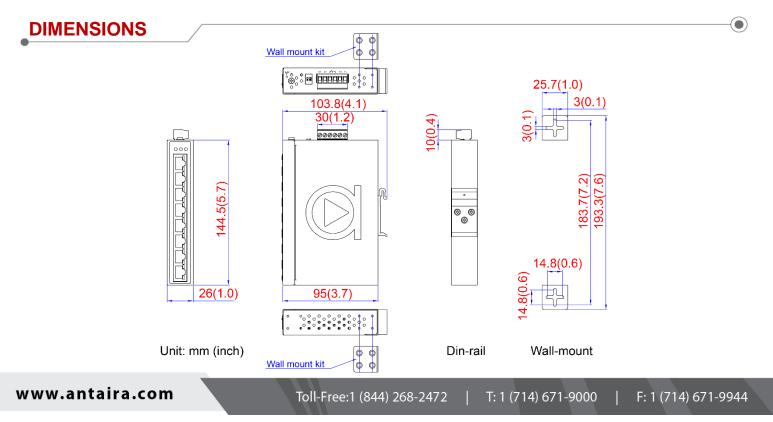
#### **Features**

- Supports 8\*10/100/1000Tx IEEE 802.3af/at Compliant with 30W/Port
- Supports 9.6Kbytes Jumbo Frame
- Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Power Input: 48~55VDC in 6-Pin Terminal Block
- Built-in 1 Relay Output for Fault Alarm
- IP30 Rugged Metal Case Design
- DIN-Rail and Wall Mount Support
- Operating Temperature Range: STD: -10°C to 65°C, EOT: -40°C to 75°C
- ► 5-Year Warranty

INTRODUCTION

**Antaira Technologies' LNP-800AGH series** is an 8-port industrial gigabit PoE+ unmanaged switch that supports 8\*10/100/1000Tx Ethernet ports. The LNP-800AGH series is a backwards compliant PoE+ switch that will support IEEE802.3af/at standards providing a maximum of 30 watts per port.

The LNP-800AGH series has been specifically designed for rugged and harsh environmental deployments. This product series is housed in a hardened IP30 rated metal enclosure that includes DIN-rail and wall mounting hardware. There are two wide operating temperature models for either a standard temperature range (STD: -10°C to 65°C) or an extended temperature range (EOT: -40°C to 75°C). The LNP-800AGH series also provides high EFT and ESD protection for any industrial networking application within ITS, security or any other outdoor or harsh environment.





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## SPECIFICATIONS

Technology			
Standards	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3x Flow Control IEEE 802.3af/at Power over Ethernet		
Switch Properties			
Switch Architecture	Switching Fabric (Back-Plane): 16Gbps		
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 148,800pps for Gigabit Ethernet			
MAC Table Size	8K		
Jumbo Frame	9.6Kbytes		
Memory Buffer	4Mbits		
Port Interface			
Ethernet Port   8*10/100/1000BaseTx (PSE: 30W/Port)     Auto negotiation speed, Full/Half duplex and auto MDI/MDI-X connection			
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)		
LED Indicators System: Power 1, Power 2, Fault Ethernet ports: On-Link/Flash-data transm 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 Characteria	stics		
Housing	Metal IP30 rated		
Dimension	26 x 144.5 x 95 mm (W x H x D)		
Weight	Unit: 0.86 lbs; Shipping: 1.5 lbs		
Mounting	DIN-Rail mounting, Wall mounting		
Power Requirement			
Input Voltage	48~55VDC Redundant Input		
Power Connection	1 removable 6-contact terminal block		
Overload Current Protection	Present (Slow-Blown Fuse)		
Reverse Polarity Protection	Present		
System Power Consumption	8Watts		
PoE Power Budget	240W		
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 ~ 85°C		
Ambient Relative Humidity	5 to 95%, (non-condensing)		
<b>Regulatory Approvals</b>			
EMI	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A		
EMS	CE EN55024/EN61000-6-2 Class A: EN61000-4-2,3,4,5,6,8		
Free Fall	IEC60068-2-32		
Shock	IEC60068-2-27		
Vibration	IEC60068-2-6		
Green	RoHS Compliant		
Certifications	FCC, CE, UL 60950-1, UL 508, UL Class 1 Division 2, ISA 12.12.01		
Warranty	5 Years		

## ORDERING INFO /

LNP-800AGH	8-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port)
LNP-800AGH-T	8-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/8*10/100/1000Tx (30W/Port), EOT: -40°C to 75°C

## **LNP-0800G Series**

8-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 8\*10/100/1000Tx (30W/Port), 48~55VDC Power Input



#### **FEATURES**

- Supports 8\*10/100/1000Tx IEEE 802.3af/at Compliant with 30W/Port
- Supports 9.6Kbytes Jumbo Frame
- Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Power Input: 48~55VDC in 6-Pin Terminal Block
- Built-in 1 Relay Output for Power Failure Warning
- IP30 Rugged Metal Case Design
- DIN-Rail and Wall Mount Support
- Operating Temperature STD: -10°C to 65°C, EOT: -40°C to 75°C
- 5-Year Warranty

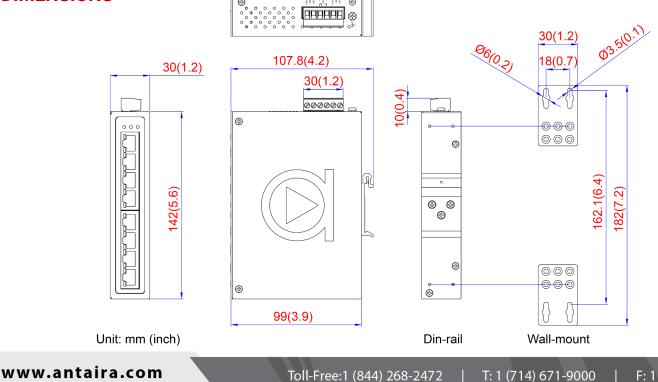


#### INTRODUCTION

**Antaira Technologies' LNP-0800G Series** is an 8-port industrial PoE+ gigabit unmanaged Ethernet switch that supports 8\*10/100/1000Tx Ethernet ports. The LNP-0800G series is a backward compliant PoE+ switch that will support IEEE 802.3af/at standards providing a maximum of 30 watts per port with an input voltage of 48~55VDC.

Antaira's LNP-0800G Series has been specifically designed for rugged and harsh environmental deployments. This product series is housed in a hardened IP30-rated metal enclosure that includes DIN-rail and wall mounting hardware. There are two wide-operating temperature models for either a standard temperature range (STD: -10°C to 65°C) or an extended temperature range (EOT: -40°C to 75°C). The LNP-0800G Series also provides high EFT and ESD protection for any industrial networking application within factory automation, ITS (including on-vehicle), solar, security, or any other outdoor or harsh environment.

## DIMENSIONS



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## **SPECIFICATIONS**

TECHNOLOGY		POWER REQUIREM	IENT
	IEEE 802.3 10Base-T Ethernet	Input Voltage	48~55VDC Redundant Input
Standards	IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet	Power Connection	1 removable 6-contact terminal block
	IEEE 802.3af/at/bt Power over Ethernet	Relay Contact	24VDC, 1A resistive
SWITCH PROPERT	IES	<b>Overload Current</b>	Dresent
Switch Architecture	Back-Plane (Switching Fabric): 16Gbps	Protection	Present
	14,880pps for Ethernet	Reverse Polarity Protection	Present
Transfer Rate	148,800pps for Fast Ethernet	System Power	
	1,488,000pps for Gigabit Ethernet	Consumption	Max. 11W full loading
Jumbo Frame	9.6Kbytes	Max PoE Power	240W
MAC Table Size	8K	Budget	
Memory Buffer	4Mbits	ENVIRONMENTAL LIMITS	
PORT INTERFACE		Operating	STD: -10°C to 65°C
	8*10/100/1000Base-TX (30W/Port)	Temperature	EOT: -40°C to 75°C
Ethernet Port A	Auto-negotiation speed, Full/Half duplex mode, and Auto MDI/MDI-X connection	Storage Temperature	-40°C ~ 85°C
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (End-span, MDI Alternative A)	Ambient Relative Humidity	5 to 95%, (non-condensing)
System: Power 1, Power 2, Fault		REGULATORY APPROVALS	
transmitting	Ethernet Ports: On-Link/Flash-data transmitting PoE: On-connected to PD devices	EMI	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable	EMS	CE EN55035/EN61000-6-2, IEC61000-4-2,3,4,5,6,8
	EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: 4-pair UTP/STP Cat. 5/5E cable; EIA/TIA-568 100-ohm (100m)	Free Fall	IEC60068-2-32
Network Cable		Shock	IEC60068-2-27
		Vibration	IEC60068-2-6
MECHANICAL CHA		Green	RoHS Compliant
Housing	Metal, IP30 protection	Certifications	FCC, CE, UL 61010-1, UL 61010-2-201
Dimension	30 x 142 x 99 mm	Warranty	5 Years
Weight	Unit: 1.55 lbs. Shipping: 1.9 lbs.		
Mounting	DIN-Rail mounting, Wall mounting		
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## **ORDERING INFORMATION**

LNP-0800G	8-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 8*10/100/1000Tx (30W/Port), 48~55VDC Power Input
LNP-0800G-T	8-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 8*10/100/1000Tx (30W/Port), 48~55VDC Power Input; EOT: -40°C to 75°C

## LNP-0800G-24 Series

8-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 8\*10/100/1000Tx (30W/Port), 9~55VDC Power Input



#### **FEATURES**

- Supports 8\*10/100/1000Tx IEEE 802.3af/at Compliant with 30W/Port
- Supports 9.6Kbytes Jumbo Frame
- Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Power Input: 9~55VDC in 6-Pin Terminal Block
- Built-in 1 Relay Output for Power Failure Warning
- IP30 Rugged Metal Case Design
- DIN-Rail and Wall Mount Support
- Operating Temperature STD: -10°C to 65°C, EOT: -40°C to 75°C
- 5-Year Warranty

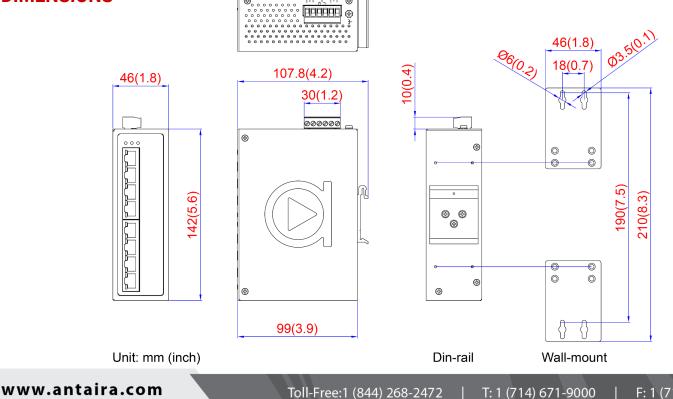


#### **INTRODUCTION**

**Antaira Technologies' LNP-0800G-24 Series** is an 8-port industrial PoE+ gigabit unmanaged Ethernet switch that supports 8\*10/100/1000Tx Ethernet ports. The LNP-0800G-24 series is a backward compliant PoE+ switch that will support IEEE 802.3af/at standards providing a maximum of 30 watts per port with an input voltage of 9~55VDC.

Antaira's LNP-0800G-24 Series has been specifically designed for rugged and harsh environmental deployments. This product series is housed in a hardened IP30-rated metal enclosure that includes DIN-rail and wall mounting hardware. There are two wide-operating temperature models for either a standard temperature range (STD: -10°C to 65°C) or an extended temperature range (EOT: -40°C to 75°C). The LNP-0800G-24 Series also provides high EFT and ESD protection for any industrial networking application within factory automation, ITS (including on-vehicle), solar, security, or any other outdoor or harsh environment.

## DIMENSIONS



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## **SPECIFICATIONS**

TECHNOLOGY		POWER REQUIREM	IENT
Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet	Input Voltage	9~55VDC Redundant Input
		Power Connection	1 removable 6-contact terminal block
	IEEE 802.3af/at/bt Power over Ethernet	Relay Contact	24VDC, 1A resistive
SWITCH PROPERT	IES	<b>Overload Current</b>	
Switch Architecture	Back-Plane (Switching Fabric): 16Gbps	Protection	Present
	14,880pps for EthernetTransfer Rate148,800pps for Fast Ethernet1,488,000pps for Gigabit Ethernet	Reverse Polarity Protection	Present
Transfer Rate		System Power Consumption	Max. 10W full loading
Jumbo Frame	9.6Kbytes		60W@9VDC
MAC Table Size	8K	Max PoE Power	90W@12VDC 150W@24VDC
Memory Buffer	4Mbits	Budget	200W@36VDC
PORT INTERFACE			240W@48~55VDC
8*10/100/1000Base-TX (30W/Port)		ENVIRONMENTAL LIMITS	
Ethernet Port	Auto-negotiation speed, Full/Half duplex mode, and Auto MDI/MDI-X connection	Operating Temperature	STD: -10°C to 65°C EOT: -40°C to 75°C
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (End-span, MDI Alternative A)	Storage Temperature	-40°C ~ 85°C
LED Indicators	System: Power 1, Power 2, Fault Ethernet Ports: On-Link/Flash-data	Ambient Relative Humidity	5 to 95%, (non-condensing)
	transmitting PoE: On-connected to PD devices	REGULATORY APPROVALS	
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: 4-pair UTP/STP Cat. 5/5E cable; EIA/TIA-568 100-ohm (100m)	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
MECHANICAL CHARACTERISTICS		Shock	IEC60068-2-27
Housing	Metal, IP30 protection	Vibration	IEC60068-2-6
Dimension	46 x 142 x 99 mm	Green	RoHS Compliant
	Unit: 1.64 lbs.	Certifications	FCC, CE, UL 61010-1, UL 61010-2-201
Weight	Shipping: 2.05 lbs.	Warranty	5 Years
Mounting	DIN-Rail mounting, Wall mounting	<b>,</b>	-

## **ORDERING INFORMATION**

LNP-0800G-24	8-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 8*10/100/1000Tx (30W/Port), 9~55VDC Power Input
LNP-0800G-24-T	8-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 8*10/100/1000Tx (30W/Port), 9~55VDC Power Input; EOT: -40°C to 75°C



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# **LNP-1600G Series**

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



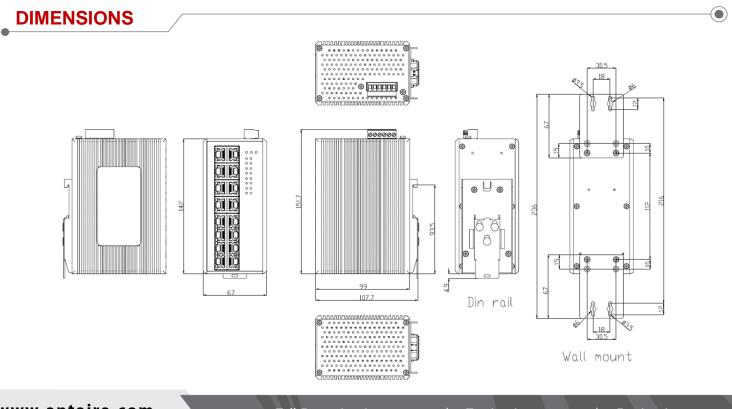


#### **Features**

- Support 16\*10/100/1000Tx Gigabit Ethernet with IEEE 802.3at Compliant PoE+
- 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-1600G series** has sixteen 10/100/1000TX RJ45 ports that support IEEE 802.3af/at PoE/PoE+ standards supplying up to 30 watts per port. It is IP30 rated 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° to 65°C or -40° to 75°C with the extended temperature version.



# SPECIFICATIONS

Technology		Power Requirement	
	IEEE 802.3 10Base-T Ethernet	Input Voltage	48 to 55VDC, Redundant Inputs
Standards	IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BaseT	<b>Power Connection</b>	1 removable 6-contact terminal block
<u> </u>	IEEE 802.3af/at Power over Ethernet	Reverse Polarity Protection	Present
Processing Type	Store and Forward	Overload Current	Present
Protocol	CSMA/CD	Protection	
Flow Control	IEEE 802.3x back pressure flow control	PoE Power Output	30Watts max. per PoE port
Switch Properties		Power Consumption	13Watts for System
Switch Architecture	Back-Plane: Non-Blocking Switching Fabric	Max. PoE Power Budget	240Watts
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	Relay Contact	24VDC, 1A resistive
	1,488,000pps for Gigabit Ethernet Port	<b>Environmental Limits</b>	
Memory Buffer	512Kbytes	Operating Temperature	STD: -10°C to 65°C EOT: -40°C to 75°C
Jumbo Frame	9,216bytes	Storage Temperature	-40°C to 85°C
MAC Table Size	8K	Ambient Relative Humidity	5% to 95%, (non-condensing)
	16*10/100/1000T(X) with 16*PoE+, auto	Regulatory Approvals	
Ethernet Port	negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection	EMI	FCC Part 15 Subpart B Class A, CE EN 55032 Class A.
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)		EN 61000-6-4 Class A
LED Indicators	Power 1, Power 2, Fault Ethernet Ports: On- Link / Flashing- Data transmitting PoE: On- connected to PD devices	EMS	CE EN 55024 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT),
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		IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
	EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5E cable:	Free Fall	IEC60068-2-32
	EIA/TIA-568 100-ohm (100m)	Shock	IEC60068-2-27
<b>Mechanical Charac</b>		Vibration	IEC60068-2-6
Housing	Aluminum and Metal, IP30 protection	Green Certifications	RoHS Compliant FCC, CE
Dimensions	67 x 142 x 99 mm (W x H x D)	Warranty	5 Years
Weight	Unit: 2.65 lbs. Shipping: 3.09 lbs.		
Mounting	DIN-Rail, Wall Mounting (optional)		

## 

LNP-1600G 16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx		
LNP-1600G-T 16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx; EOT: -40°C to 75°C		
Optional Accessori	es	
NDR-240-48	240W Industrial DIN-Rail Power Supply, 48VDC	
NDR-480-48	480W Industrial DIN-Rail Power Supply, 48VDC	

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# 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

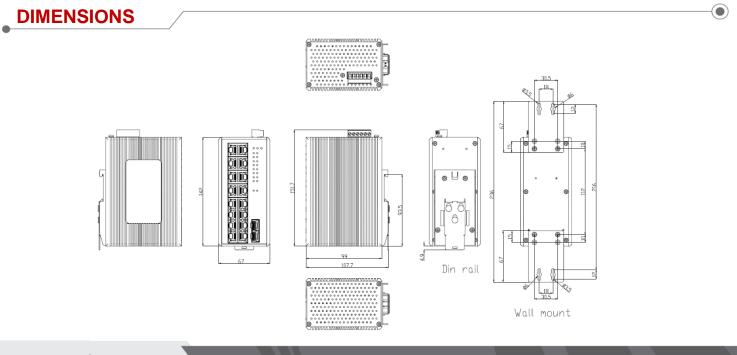
## INTRODUCTION

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.

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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 highdensity connections, such as power/utility, water wastewater treatment, oil/gas/mining, process control automation, security access control systems, and intelligent transportation systems.



# 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	2*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.5/5E 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: 2.65 lbs. Shipping: 3.09 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	15Watts for System
Max. PoE Power Budget	240Watts
Relay Contact	24VDC, 1A resistive
<b>Environmental Limits</b>	
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)
<b>Regulatory Approvals</b>	
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	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE
Warranty	5 Years

## 

LNP-1802G-SFP	18-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 16*10/100/1000Tx (30W/Port) + 2*100/1000 SFP
LNP-1802G-SFP-T	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 Accessorie	PS
NDR-240-48	240W Industrial DIN-Rail Power Supply, 48VDC
NDR-480-48	480W Industrial DIN-Rail Power Supply, 48VDC

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# **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

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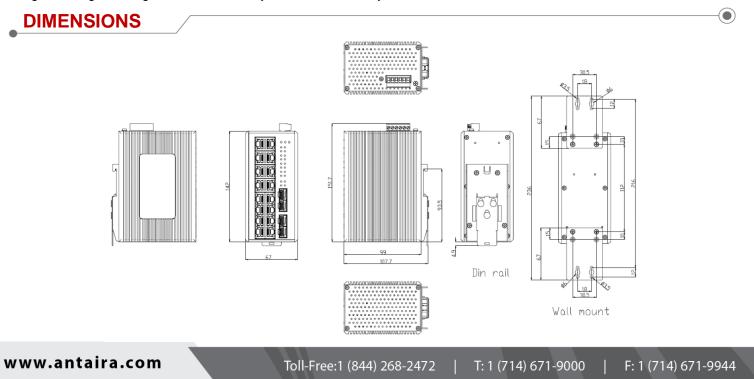
#### **Features**

- 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.



# 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.5/5E cable; EIA/TIA-568 100-ohm (100m)
Mechanical Charact	eristics
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 RequirementInput Voltage48 to 55VDC, Redundant InputsPower Connection1 removable 6-contact terminal blockReverse Polarity ProtectionPresentProtectionPresentOverload Current ProtectionPresentPoE Power Output30Watts max. per PoE portPower Consumption16Watts for SystemMax. PoE Power Budget240WattsRelay Contact24VDC, 1A resistiveEnvironmental LimitsOperating TemperatureOperating TemperatureSTD: -10°C to 65°C EOT: -40°C to 75°CStorage Temperature Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, EN 61000-6-4 Class A, EN 61000-6-2 Class A, EN 61000-6-2 Class A, EI C61000-4-3 (RS), IEC61000-4-3 (RS), IEC61000-4-6 (CS), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-27VibrationIEC60068-2-6		
Power Connection1 removable 6-contact terminal blockReverse Polarity ProtectionPresentProtectionPresentOverload Current ProtectionPresentPoE Power Output30Watts max. per PoE portPower Consumption16Watts for SystemMax. PoE Power Budget240WattsRelay Contact24VDC, 1A resistiveEnvironmental LimitsOperating EOT: -40°C to 65°COperating TemperatureSTD: -10°C to 65°CStorage Temperature Humidity-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, EN 61000-6-4 Class AEMSEC61000-4-2 (ESD), IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-32	Power Requirement	
Reverse Polarity ProtectionPresentOverload Current ProtectionPresentPoE Power Output30Watts max. per PoE portPower Consumption16Watts for SystemMax. PoE Power Budget240WattsRelay Contact24VDC, 1A resistiveEnvironmental LimitsOperating EOT: -40°C to 65°C EOT: -40°C to 75°CStorage Temperature-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, EN 61000-6-4 Class AEMSEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-27	Input Voltage	48 to 55VDC, Redundant Inputs
ProtectionPresentOverload Current ProtectionPresentPoE Power Output30Watts max. per PoE portPower Consumption16Watts for SystemMax. PoE Power Budget240WattsRelay Contact24VDC, 1A resistiveEnvironmental LimitsCoperating EOT: -40°C to 65°C EOT: -40°C to 75°CStorage Temperature-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, EN 61000-6-4 Class AEMICE EN 55022 Class A, EN 61000-6-2 Class A, IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-27	Power Connection	1 removable 6-contact terminal block
ProtectionPresentPote Fower Output30Watts max. per PoE portPower Consumption16Watts for SystemMax. PoE Power Budget240WattsBudget240WattsRelay Contact24VDC, 1A resistiveEnvironmental LimitsCoperating TemperatureOperating TemperatureSTD: -10°C to 65°C EOT: -40°C to 75°CStorage Temperature-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, EN 61000-64 Class AEMICE EN 55032 Class A, EN 61000-64 Class A, EC EN 55024 Class A, EC 61000-42 (ESD), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-27	Protection	Present
Power Consumption16Watts for SystemMax. PoE Power Budget240WattsRelay Contact24VDC, 1A resistiveEnvironmental LimitsOperating EOT: -10°C to 65°C EOT: -40°C to 75°COperating TemperatureSTD: -10°C to 65°C EOT: -40°C to 75°CStorage Temperature-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-64 Class AEMIFCC Part 15 Subpart B Class A, CE EN 55024 Class A, EN 61000-64 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-27	•••••	Present
Max. PoE Power Budget240WattsRelay Contact24VDC, 1A resistiveEnvironmental Limits24VDC, 1A resistiveOperating TemperatureSTD: -10°C to 65°C EOT: -40°C to 75°CStorage Temperature-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class AEMIFCC Part 15 Subpart B Class A, CE EN 55024 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-3 (RS), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-27	PoE Power Output	30Watts max. per PoE port
Budget240WattsRelay Contact24VDC, 1A resistiveEnvironmental Limits24VDC, 1A resistiveOperating TemperatureSTD: -10°C to 65°C EOT: -40°C to 75°CStorage Temperature-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class AEMIFCC Part 15 Subpart B Class A, CE EN 55024 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-3 (RS), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-27	Power Consumption	16Watts for System
Environmental LimitsOperating TemperatureSTD: -10°C to 65°C EOT: -40°C to 75°CStorage Temperature-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class AEMICE EN 55024 Class A, EC 61000-4-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-27		240Watts
Operating TemperatureSTD: -10°C to 65°C EOT: -40°C to 75°CStorage Temperature-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class AEMIFCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class A, EN 61000-6-4 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 FallIEC60068-2-32ShockIEC60068-2-27	Relay Contact	24VDC, 1A resistive
Temperature   EOT: -40°C to 75°C     Storage Temperature   -40°C to 85°C     Ambient Relative Humidity   5% to 95%, (non-condensing)     Regulatory Approvals   FCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class A     EMI   CE EN 55024 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-3 (RS), IEC61000-4-6 (CS), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)     Free Fall   IEC60068-2-32     Shock   IEC60068-2-27	<b>Environmental Limits</b>	
Ambient Relative Humidity   5% to 95%, (non-condensing)     Regulatory Approvals   FCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class A     EMI   CE EN 55024 Class A, EN 61000-6-2 Class A, EN 61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)     Free Fall   IEC60068-2-32     Shock   IEC60068-2-27		
Humidity   5% to 95%, (non-condensing)     Regulatory Approvals   FCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class A     EMI   CE EN 55024 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)     Free Fall   IEC60068-2-32     Shock   IEC60068-2-27	Storage Temperature	-40°C to 85°C
EMI   FCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class A     EN 61000-6-4 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-8 (Magnetic Field)     Free Fall   IEC60068-2-32     Shock   IEC60068-2-27		5% to 95%, (non-condensing)
EMI   CE EN 55032 Class A, EN 61000-6-4 Class A     EN 61000-6-4 Class A   EN 61000-6-2 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)     Free Fall   IEC60068-2-32     Shock   IEC60068-2-27	<b>Regulatory Approvals</b>	
EMS   EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)     Free Fall   IEC60068-2-32     Shock   IEC60068-2-27	EMI	CE EN 55032 Class A,
Shock IEC60068-2-27	EMS	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),
	Free Fall	, , , ,
Vibration IEC60068-2-6		
	Vibration	IEC60068-2-6
Green RoHS Compliant		
Certifications FCC, CE		
Warranty 5 Years	Warranty	5 Years

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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 Accessor	ies
NDR-240-48	240W Industrial DIN-Rail Power Supply, 48VDC
NDR-480-48	480W Industrial DIN-Rail Power Supply, 48VDC

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## LNP-C501G-SFP-bt Series

5-Port Industrial Compact Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, 4\*10/100/1000TX (90W/Port) and 1\*100/1000 SFP Slot

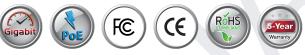


## FEATURES

Support 4\*10/100/1000Tx IEEE 802.3bt Compliant with 90W/Port and 1\*100/1000 SFP Slot

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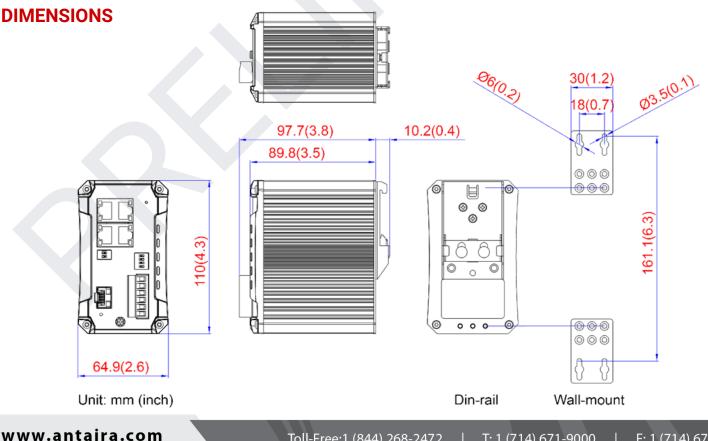
- Support PD Remote Rest Technology (PRRT)
- Adjustable SFP Speed with DIP-Switch Setting
- Store-and-Forward Switching Architecture
- Dual Power Input 48~55VDC in 6-Pin Terminal Block
- Support Power Inputs Reverse Polarity Protection
- ► IP40 Protection
- DIN-Rail or Wall Mountable
- Operating Temperature STD: -10°C to 65°C, EOT: -40°C to 75°C
- 5-Year Warranty



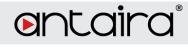
#### INTRODUCTION

Antaira Technologies' LNP-C501G-SFP-bt Series is a 5-port industrial compact Gigabit PoE++ unmanaged Ethernet switch embedded with 4\*10/100/1000Tx Ethernet ports that support IEEE802.3bt for a maximum of 90W/port, and 1\*100/1000 dual rate SFP slot for fiber connection.

The LNP-C501G-SFP-bt series is IP40 rated and DIN-rail mountable. There are also two wide-operating temperature models for either a standard temperature range (STD: -10°C to 65°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides high EFT and ESD protection for industrial networking applications, such as power/utility, water wastewater, oil/gas/mining, factory automation, security surveillance, ITS, and any other outdoor or harsh environment.



## **SPECIFICATIONS**



TECHNOLOGY		MECHANICAL CHA	RACTERISTICS	
Standards	IEEE 802.3 10Base-T Ethernet	Housing	Metal, IP40 protection	
	IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet	Dimension	64.9 x 110 x 89.8 mm (W x H x D)	
	IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3af/at/bt Power over Ethernet	Weight	Unit: 0.70 lb Shipping: 1.00 lb	
SWITCH PROPERT	IES	Mounting	DIN-Rail mounting, Wall mounting	
Switch Architecture	Switching Fabric (Back-Plane): 10Gbps	POWER REQUIREM	IENT	
Processing Type	Store and Forward	Input Voltage	48~55VDC Redundant Input	
Flow Control	IEEE 802.3x flow control, back pressure		(53~55VDC power input for BT PoE PSE)	
	flow control	Power Connection	1 removable 6-contact terminal block	
Protocol	CSMA/CD	Relay Contact	24VDC, 1A resistive	
Transfer Rate	14,880pps for Ethernet 148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	Overload Current Protection	Present (Slow-Blown Fuse)	
MAC Table Size	8K	Reverse Polarity	Present	
Jumbo Frame	10Kbytes	Protection		
Memory Buffer	1Mbit	System Power Consumption	4.6 Watts	
PORT INTERFACE			V-, V-, V+, V+ for pin 1, 2, 3, 6	
Ethernet Port	4*10/100/1000Base-TX (90W/Port), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection	PoE Pin Out	V+, V+, V-, V- for pin 4, 5, 7, 8 *Support Modes: Mode A, Mode B, 4-Pair Mode	
SFP Port	1*100/1000 SFP Slot	PoE Power Budget	240W	
	System: Power 1, Power 2, Fault PoE Load: 70%, 90%		ENVIRONMENTAL LIMITS	
LED Indicators	Ethernet ports: Speed/Link/Active PoE: On-connected to PD devices	Operating Temperature	STD: -10°C to 65°C EOT: -40°C to 75°C	
DIP Switch	SFP: Speed/Link/Active PoE Switch: Control PoE Function by Port DIP Switch 1: PD Remote Reset Technology (PRRT) Enable/Disable DIP Switch 2: SFP Speed (1000Mbps/100Mbps)	Storage Temperature	-40°C ~ 85°C	
		Ambient Relative Humidity	5 to 95%, (non-condensing)	
		REGULATORY APP	ROVALS	
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)	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	
		Certifications	FCC, CE	

## **ORDERING INFORMATION**

LNP-C501G-SFP-bt5-Port Compact Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, 4\*10/100/1000TX<br/>(90W/Port) and 1\*100/1000 SFP Slot

Warranty

**LNP-C501G-SFP-bt-T** 5-Port Compact Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, 4\*10/100/1000TX (90W/Port) and 1\*100/1000 SFP Slot; EOT: -40°C to 75°C

5 Years

# LNP-C501G-SFP-bt-24 Series

5-Port Industrial Compact Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, 4\*10/100/1000TX (90W/Port), 1\*100/1000 SFP Slot; 9~55VDC Power Input



#### **FEATURES**

Support 4\*10/100/1000Tx IEEE 802.3bt Compliant with 90W/Port and 1\*100/1000 SFP Slot

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- Support PD Remote Rest Technology (PRRT)
- Adjustable SFP Speed with DIP-Switch Setting
- Store-and-Forward Switching Architecture
- Dual Power Input 9~55VDC in 6-Pin Terminal Block
- Provided power booster technologies for low voltage power inputs
- Support Power Inputs Reverse Polarity Protection
- IP40 Protection
- DIN-Rail or Wall Mountable
- Operating Temperature STD: -10°C to 65°C, EOT: -40°C to 75°C
- ► 5-Year Warranty

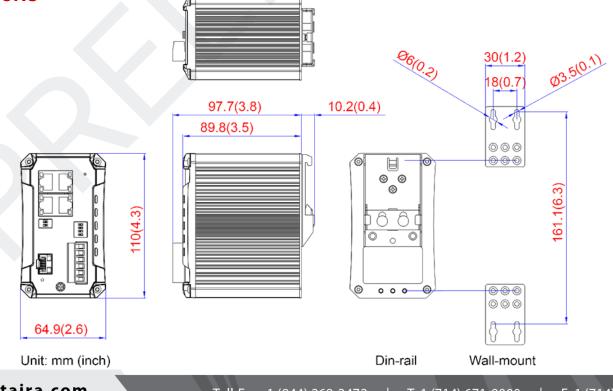


## INTRODUCTION

**Antaira Technologies' LNP-C501G-SFP-bt-24 Series** is a 5-port industrial compact Gigabit PoE++ unmanaged Ethernet switch embedded with 4\*10/100/1000Tx Ethernet ports that support IEEE802.3bt for a maximum of 90W/port, and 1\*100/1000 dual rate SFP slot for fiber connection.

The LNP-C501G-SFP-bt-24 series is IP40 rated and DIN-rail mountable. There are also two wide-operating temperature models for either a standard temperature range (STD: -10°C to 65°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides high EFT and ESD protection for industrial networking applications, such as power/utility, water wastewater, oil/gas/mining, factory automation, security surveillance, ITS, and any other outdoor or harsh environment.

## DIMENSIONS



## **SPECIFICATIONS**



TECHNOLOGY		MECHANICAL CHARACTERISTICS	
Standards	IEEE 802.3 10Base-T Ethernet	Housing	Metal, IP40 protection
	IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet	Dimension	64.9 x 110 x 89.8 mm (W x H x D)
	IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3af/at/bt Power over Ethernet	Weight	Unit: 0.70 lb Shipping: 1.00 lb
SWITCH PROPERT	IES	Mounting	DIN-Rail mounting, Wall mounting
Switch Architecture	Switching Fabric (Back-Plane): 10Gbps	POWER REQUIREM	
Processing Type	Store and Forward	Input Voltage	9~55VDC Redundant Input
Flow Control	IEEE 802.3x flow control, back pressure flow control		(53~55VDC power input for BT PoE PSE) 1 removable 6-contact terminal block
Protocol	CSMA/CD		
	14,880pps for Ethernet	Relay Contact	24VDC, 1A resistive
Transfer Rate	148,800pps for Fast Ethernet 1,488,000pps for Gigabit Ethernet	Overload Current Protection	Present (Slow-Blown Fuse)
MAC Table Size	8K	Reverse Polarity Protection	Present
Jumbo Frame	10Kbytes	System Power	
Memory Buffer	1Mbit	Consumption	4.6 Watts
PORT INTERFACE			V-, V-, V+, V+ for pin 1, 2, 3, 6
Ethernet Port	4*10/100/1000Base-TX (90W/Port), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection	PoE Pin Out	V+, V+, V-, V- for pin 4, 5, 7, 8 *Support Modes: Mode A, Mode B, 4-Pair Mode
SFP Port	1*100/1000 SFP Slot	PoE Power Budget	60W@9V, 90W@12V, 150W@24V, 240W@48~55
	System: Power 1, Power 2, Fault PoE Load: 70%, 90% Ethernet ports: Speed/Link/Active PoE: On-connected to PD devices SFP: Speed/Link/Active	ENVIRONMENTAL LIMITS	
LED Indicators		Operating	STD: -10°C to 65°C
		Temperature	EOT: -40°C to 75°C
DIP Switch	PoE Switch: Control PoE Function by Port DIP Switch 1: PD Remote Reset Technology (PRRT) Enable/Disable DIP Switch 2: SFP Speed	Storage Temperature	-40°C ~ 85°C
		Ambient Relative Humidity	5 to 95%, (non-condensing)
	(1000Mbps/100Mbps) 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)	REGULATORY APP	ROVALS
Network Cable		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
		Certifications	FCC, CE

## **ORDERING INFORMATION**

5-Port Compact Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, 4\*10/100/1000TX LNP-C501G-SFP-bt-24 (90W/Port), 1\*100/1000 SFP Slot; 9~55VDC Power Input

Warranty

5-Port Compact Industrial Gigabit IEEE 802.3bt PoE++ Unmanaged Ethernet Switch, 4\*10/100/1000TX LNP-C501G-SFP-bt-24-T (90W/Port), 1\*100/1000 SFP Slot; 9~55VDC Power Input; EOT: -40°C to 75°C

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5 Years



# LNP-800AGH-24-T-CC

8-Port Industrial PoE+ Unmanaged Ethernet Switch, with 8\*10/100/1000Tx (30W/Port), 12~36VDC; EOT: -40°~75°C with Conformal Coating



#### **Features**

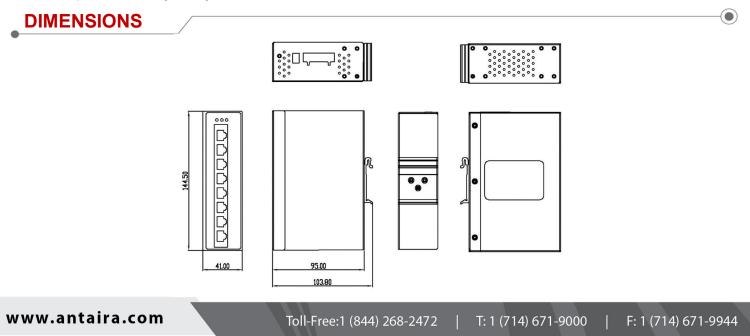
- Conformal Coating
- Support 8-Port 10/100Tx RJ45 Fast Ethernet
- Support Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Surge Protection: 2,000 VDC Support
- ESD Protection: 6,000 VDC Support
- Redundant Power Input Design: 12~36VDC
- Power Polarity Reverse Protect
- Overload Current Resettable Fuse Present
- Built-in 1 Relay Output for Fault Alarm
- UL Class 1 Division 2 Certified
- IP30 Rugged Metal Case Design
- DIN-Rail and Wall Mount Support
- ▶ Operating Temperature Range: EOT: -40° to 75°C
- 5-Year Warranty

INTRODUCTION

**Antaira Technologies' LNP-800AGH-24-T-CC** is an 8-port industrial PoE+ unmanaged switch that supports 8\*10/100/1000Tx Ethernet ports. The LNP-800AGH-24-T-CC is a backwards compliant PoE+ switch that will support IEEE802.3af/at standards providing a maximum of 30 watts per port with an input voltage of 12-36VDC. This unit has been conformal coated for corrosion prevention.

Conformal coating is a specialty film which conforms to the contours of the printed circuit board to protect the board from adverse environmental conditions. Antaira's conformal coating process meets or exceed the standards for protection against gases, dust, and water.

Antaira's LNP-800AGH-24-T-CC has been specifically designed for rugged and harsh environmental deployments. This product series is housed in a hardened IP30 rated metal enclosure that includes DIN-rail and wall mounting hardware. Also, this unit can operate in the extended temperature range (EOT: -40°C to 75°C). The LNP-800AGH-24-T-CC also provides high EFT and ESD protection for any industrial networking application within factory automation, ITS (including on-vehicle), solar, security or any other outdoor environment.



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## SPECIFICATIONS /

Technology	
Standards	IEEE 802.3 10Tx Ethernet IEEE 802.3U 100Tx Fast Ethernet IEEE 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3x Flow Control for Full Duplex IEEE 802.3at/af PoE (Power-over-Ethernet)
Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x for full duplex mode, back pressure for half duplex mode
Switch Properties	
Switch Architecture	Back-Plane: Non-Blocking Switching Fabric
Transfer Rate	14,880pps for 10Base-T Ethernet port 148,8800pps for 100Base-T Fast Ethernet port 1,480,000pps for 1000Base-T Gigabit Ethernet
Memory Buffer	4Mbits
Jumbo Frame	9.6Kbytes
MAC Table Size	8K
Interface	
Ethernet Port	8*10/100/1000BaseTx (PSE: 30W/Port) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
<b>PoE Port Pin</b> V+, V+, V-, V-, for pin 1, 2, 3, 6 (End span,	
Assignment MDI-X Alternative A)	
LED Indicators	Per Unit: Power 1 & 2 (Green), Fault (Red)
Network Cable	10Base-Tx: 2-pair UTP/STP Cat. 3, 4, 5 cable; 100Base-Tx: 2-pair UTP/STP Cat. 5 cable. 1000Base-Tx: 4-pair UTP/STP Cat. 5/5e/6
Power Requirement	
Input Voltage	12~36VDC Redundant Input
Power Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Overload Current Protection	Present
Power Consumption	10 Watts (no PD included)
PoE Power Budget	90 Watts / 12VDC 200 Watts / 24-36VDC

Mechanical Characteristics		
Housing	Metal, IP30 protection	
Dimensions	41 x 144.5 x 95mm	
Weight	Unit: 1.0 lb Shipping: 1.5 lbs	
Mounting	DIN-Rail and Wall-mount (optional)	
<b>Environmental Limits</b>		
Operating Temperature	EOT: -40° to 75°C	
Storage Temperature	-40°~85°C	
Ambient Relative Humidity	5 to 95%, (Non-condensing)	
<b>Regulatory Approvals</b>		
EMI	FCC Class A	
EMS	EN6100-4-2,3,4,5,6,8,11,12 EN6100-6-2,4	
Free Fall	IEC60068-2-32	
Shock	IEC60068-2-27	
Vibration	IEC60068-2-6	
Green	RoHS Compliant	
Certifications	FCC, CE, UL 61010-1, UL 61010-2-201, UL Class 1 Division 2	
Corrosion Prevention	IEC 60068-2-11, IEC 60068-2-52, IEC 60068-2-60 IPC-CC-830B, MIL-I-46058C, IEC 61086-2 (Class 2), UL 94, UL 746E ISO 9223 (Class C5-Very High, Class GX-Severe) ANSI/ISA 71.04 (Class GX-Severe)	
Warranty	5 Years	

## **ORDERING INFO**

LNP-800AGH-24-T-CC	8-Port Industrial PoE+ Unmanaged Ethernet Switch, with 8*10/100/1000Tx (30W/Port), 12~36VDC; EOT: -40°~75°C with Conformal Coating	
<b>Optional Accessories</b>	8	
MDR-60-24	60W Industrial DIN-Rail Power Supply, 24VDC	
DR-75-24	75W Industrial DIN-Rail Power Supply, 24VDC	
DR-120-24 120W Industrial DIN-Rail Power Supply, 24VDC		
SDR-240-24	240W Industrial DIN-Rail Power Supply, 24VDC	
SDR-480-24	480W Industrial DIN-Rail Power Supply, 24VDC	



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# LNP-1002G-SFP Series

10-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch - 8\*10/100/1000Tx (30W per Port), and 2\*100/1000 SFP Slot

### **Features**

- Supports 8-Port 10/100/1000Tx IEEE 802.3at PoE+ Compliant with 30W per Port, + 2-Port 100/1000 SFP
- Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- 10Gbps Back-Plane (Switching Fabric)
- 8K MAC Address Table
- ▶ 9.6Kbytes Jumbo Frame Support
- 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

Intain

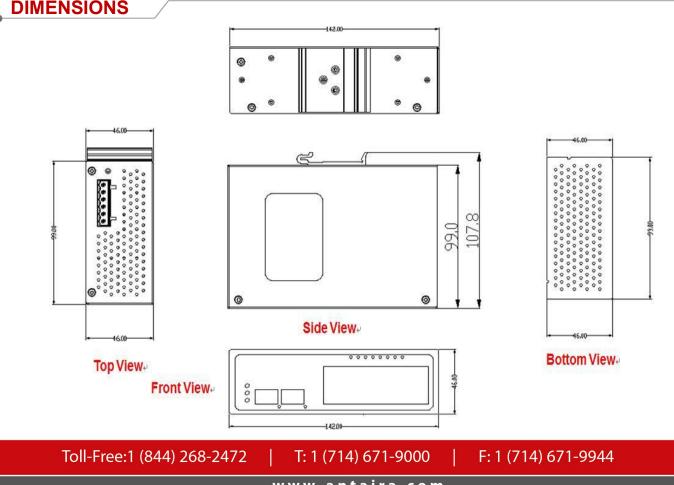
Antaira Technologies' LNP-1002G-SFP series industrial PoE/PoE+ gigabit unmanaged Ethernet switch features 8\*10/100/1000Tx ports, which support IEEE 802.3at high power PoE (30W/Port), and two dual rate 100/1000Fx SFP slots. This product series provides high EFT and ESD protection to protect against unregulated voltage. It also provides wide operation temperature models for standard: –10° to 70°C and extended: -40° to 75°C. The LNP-1002G-SFP series is an ideal solution for harsh environments and industrial applications.

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## SPECIFICATIONS

Technology		Mechanical Characte	
	IEEE 802.3 10BaseTx Ethernet	Housing	Metal, IP30 protection
- · · ·	IEEE 802.3u 100BaseTx Fast Ethernet	Dimensions	46 x 99 x 142 mm (W*D*H)
Standards	IEEE 802.3ab 1000BaseTx	Weight	Unit: 1.5lbs.
	IEEE 802.3z Gigabit Fiber		Shipping Weight: 2.0 lbs.
	IEEE 802.3at PoE+	Mounting	DIN-Rail, Wall mounting (optional)
Processing Type	Store and Forward	Environmental Limits	6
Protocol	CSMA/CD	Operating	STD: -10° to 70°C
Flow Control	IEEE 802.3x back pressure flow control	Temperature	EOT: -40° to 75°C
Switch Properties	· ••••••••••••••••••••••••••••••••••	Storage Temperature	-40°C ~ 85°C
		Ambient Relative	5 to 95%, (non-condensing)
Switch Architecture	Back-Plane (Switching Fabric): 10Gbps	Humidity	, ( 6,
	14,880pps for Ethernet Port	Regulatory Approval	
Transfer Rate	148,800pps for Fast Ethernet Port	EMI	FCC Class A
	1,488,000pps for Gigabit Ethernet Port	– EMS	EN61000-4-2,3,4,5,6,8,11,12
Jumbo Frame	9.6Kbytes		EN61000-6-2,4
MAC Table Size	8K	Free Fall	IEC60068-2-32
Interface		Shock	IEC60068-2-27
Ethernet Port	8*RJ45 Ports w/10/100/1000Tx (PSE	Vibration	IEC60068-2-6
	30W/Port)	Green	RoHS Compliant
Fiber Port	2*100/1000 SFP Slot	- Certifications	FCC, CE, UL 61010-1,
PoE Pin out	V+, V+, V-, V- for pins 1,2,3,6	Certifications	UL 61010-2-201, UL Class 1 Division 2. ISA 12.12.01
	Endspan, MDI Alternative A	Warranty	5 Years
	10Base Tx: 2-pair UTP/STP Cat. 3,4,5	warranty	5 reals
Network Cable	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	Present		
Protection		_	
Connection	1 removable 6-contact terminal block	_	
Reverse Polarity Protection	Yes		
Power Consumption	210 Watts @ 48V 250 Watts @ 51-55V (Full Load w/ PoE)	_	

## ORDERING INFO

LNP-1002G-SFP	10-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, w/ 8*10/100/1000Tx (30W/Port), and 2*100/1000 SFP Slot
LNP-1002G-SFP-T	10-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, w/ 8*10/100/1000Tx (30W/Port), and 2*100/1000 SFP Slot; EOT: -40 to 75C
<b>Optional Accessories</b>	
MDR-100-48	100W Industrial Single Output Miniature DIN Rail Power Supply, 48VDC
DR-120-48	120W Industrial Din Rail Power Supply, 48VDC
SDR-120-48	120W Industrial Single Output Miniature DIN Rail Power Supply, 48VDC
SDR-240-48	240W Industrial Slim & High Efficiency DIN Rail Power Supply with PFC Function, 48VDC



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## LNP-1002G-SFP-24 Series

10-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 8\*10/100/1000Tx (30W per Port), and 2\*100/1000 SFP Slots; 12~36VDC Input

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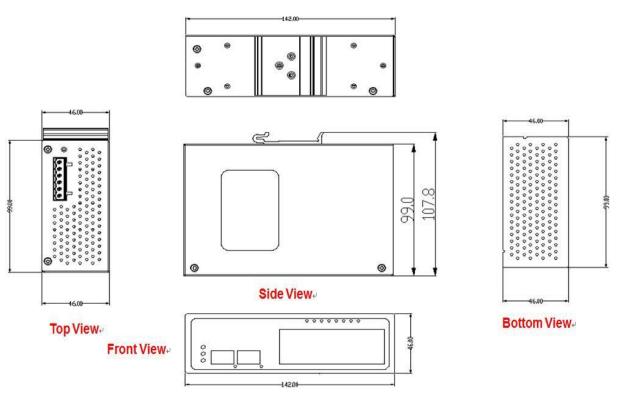
#### **Features**

- Supports 8-Port 10/100/1000Tx IEEE 802.3at PoE+ Compliant with 30W per Port, + 2-Port 100/1000 SFP
- Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- 10Gbps Back-Plane (Switching Fabric)
- 8K MAC Address Table
- 9.6Kbytes Jumbo Frame Support
- Surge Protection: 2,000 VDC Support
- ESD Protection: 6,000 VDC Support
- Redundant Power Input Design: 12~36VDC (with Voltage Booster)
- 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-1002G-SFP-24 series industrial PoE/PoE+ gigabit unmanaged Ethernet switch features 8\*10/100/1000Tx ports, which support IEEE 802.3at high power PoE (30W/Port), and two dual rate 100/1000Fx SFP slots. This product series provides high EFT and ESD protection to protect against unregulated voltage. It provides wide operation temperature models: standard version: -10° to 70°C and extended version: -40° to 75°C. The LNP-1002G-SFP-24 series also supports a low voltage power input range of 12~36VDC. It is an ideal solution for harsh environments and industrial applications.

## DIMENSIONS



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## SPECIFICATIONS

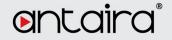
IEEE 802.3 10BaseTx Ethernet IEEE 802.3u 100BaseTx Fast Ethernet IEEE 802.3u 100BaseTx IEEE 802.3ab 1000BaseTx IEEE 802.3ab 1000BaseTx IEEE 802.3a D00BaseTx IEEE 802.3a D00BaseTx IIIEEE 802.3a D00BaseTx IIIIEEE 802.3a D00BaseTx IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Protocol CSMA/CD   Flow Control IEEE 802.3x back pressure flow control   Switch Properties Switch Architecture   Back-Plane (Switching Fabric): 10Gbps   14,880pps for Ethernet Port   14,880pps for Fast Ethernet Port   148,800pps for Gigabit Ethernet Port   Jumbo Frame 9.6Kbytes   MAC Table Size 8K   Interface 8*RJ45 Ports w/10/100/1000Tx (PSE 30W/Port)   Fiber Port 2*100/1000 SFP Slot   PoE Pin out V+, V+, V-, V- for pins 1,2,3,6
Flow Control IEEE 802.3x back pressure flow control   Switch Properties Switch Architecture Back-Plane (Switching Fabric): 10Gbps   Transfer Rate 14,880pps for Ethernet Port   14,880pps for Fast Ethernet Port 148,000pps for Gigabit Ethernet Port   Jumbo Frame 9.6Kbytes   MAC Table Size 8K   Interface 8*RJ45 Ports w/10/100/1000Tx (PSE 30W/Port)   Fiber Port 2*100/1000 SFP Slot   PoE Pin out V+, V+, V-, V- for pins 1,2,3,6
Switch Properties   Switch Architecture Back-Plane (Switching Fabric): 10Gbps   14,880pps for Ethernet Port   148,800pps for Fast Ethernet Port   148,800pps for Gigabit Ethernet Port   1488,000pps for Gigabit Ethernet Port   1488,000pps for Gigabit Ethernet Port   Jumbo Frame 9.6Kbytes   MAC Table Size 8K   Interface 8*RJ45 Ports w/10/100/1000Tx (PSE 30W/Port)   Fiber Port 2*100/1000 SFP Slot   PoE Pin out V+, V+, V-, V- for pins 1,2,3,6
Switch ArchitectureBack-Plane (Switching Fabric): 10GbpsTransfer Rate14,880pps for Ethernet PortTransfer Rate148,800pps for Fast Ethernet PortJumbo Frame9.6KbytesMAC Table Size8KInterface8*RJ45 Ports w/10/100/1000Tx (PSE 30W/Port)Fiber Port2*100/1000 SFP SlotPoF Pin outV+, V+, V-, V- for pins 1,2,3,6
Transfer Rate14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet PortJumbo Frame9.6KbytesMAC Table Size8K 1 InterfaceEthernet Port8*RJ45 Ports w/10/100/1000Tx (PSE 30W/Port)Fiber Port2*100/1000 SFP SlotPoE Pin outV+, V+, V-, V- for pins 1,2,3,6
Transfer Rate   148,800pps for Fast Ethernet Port     Jumbo Frame   9.6Kbytes     MAC Table Size   8K     Interface   8*RJ45 Ports w/10/100/1000Tx (PSE 30W/Port)     Fiber Port   2*100/1000 SFP Slot     PoE Pin out   V+, V+, V-, V- for pins 1,2,3,6
MAC Table Size   8K     Interface   8*RJ45 Ports w/10/100/1000Tx (PSE 30W/Port)     Fiber Port   2*100/1000 SFP Slot     PoF Pin out   V+, V+, V-, V- for pins 1,2,3,6
Interface   8*RJ45 Ports w/10/100/1000Tx (PSE 30W/Port)     Fiber Port   2*100/1000 SFP Slot     PoE Pin out   V+, V+, V-, V- for pins 1,2,3,6
Ethernet Port   8*RJ45 Ports w/10/100/1000Tx (PSE 30W/Port)     Fiber Port   2*100/1000 SFP Slot     PoF Pin out   V+, V+, V-, V- for pins 1,2,3,6
Euternet Port   30W/Port)     Fiber Port   2*100/1000 SFP Slot     PoF Pin out   V+, V+, V-, V- for pins 1,2,3,6
PoF Pin out V+, V+, V-, V- for pins 1,2,3,6
Endspan, MDI Alternative A
Network Cable10Base Tx: 2-pair UTP/STP Cat. 3,4,5100Base Tx: 2-pair UTP/STP Cat. 51000Base Tx: 2-pair UTP/STP Cat. 5/5E
Power Requirements
Input Voltage 12~36VDC, Redundant Input (with voltage booster)
Overload Current Protection Present
Connection 1 removable 6-contact terminal block
Reverse Polarity Protection Yes
Power Consumption145 Watts @ 12V 200 Watts @ 24V (Full Load w/ PoE)

Mechanical Charact	eristics	
Housing	Metal, IP30 protection	
Dimensions	46 x 99 x 142 mm (W*D*H)	
Weight	Unit: 1.5lbs. Shipping Weight: 2.0 lbs.	
Mounting	DIN-Rail, Wall mounting (optional)	
Environmental Limit	ts	
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)	
<b>Regulatory Approva</b>	ls	
EMI	FCC Class A	
EMS	EN61000-4-2,3,4,5,6,8,11,12 EN61000-6-2,4	
Free Fall	IEC60068-2-32	
Shock	IEC60068-2-27	
Vibration	IEC60068-2-6	
Green	RoHS Compliant	
Certifications	FCC, CE, UL 61010-1, UL 61010-2-201, UL Class 1 Division 2, ISA 12.12.01	
Warranty	5 Years	

## ORDERING INFO

LNP-1002G-SFP-24	10-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, w/ 8*10/100/1000Tx (30W/Port), and 2*100/1000 SFP Slot; 12~36VDC input	
LNP-1002G-SFP-24-T	10-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, w/ 8*10/100/1000Tx (30W/Port), and 2*100/1000 SFP Slot; 12~36VDC input; EOT: -40 to 75C	
Optional Accessories		
MDR-60-24	60W Industrial Din Rail Power Supply, 24VDC	
DR-75-24	75W Industrial Din Rail Power Supply, 24VDC	
DR-120-24	120W Industrial Din Rail Power Supply, 24VDC	
DRP-240-24	240W Industrial Din Rail Power Supply, 24VDC	

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# LNP-1002G-SFP-T-CC

10-Port Industrial PoE+ Gigabit Unmanaged Switch, with 8\*10/100/1000Tx (30W/Port) and 2\*100/1000 SFP Slots, EOT: -40° to 75°C, with Conformal Coating



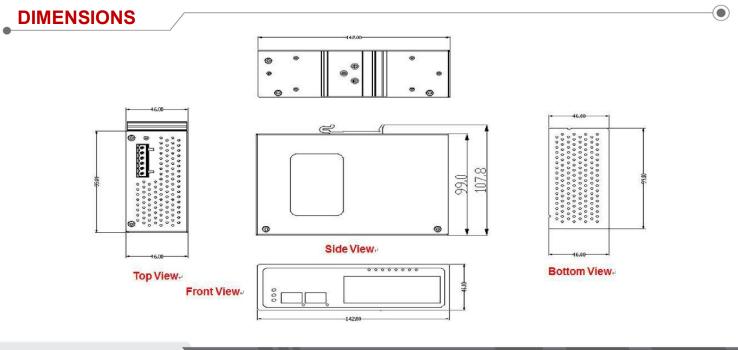
#### **Features**

- Conformal Coating
- Supports 8-Port 10/100/1000Tx IEEE 802.3at PoE+ Compliant with 30W per Port and 2-Port 100/1000 SFP
- Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- 10Gbps Back-Plane (Switching Fabric)
- 8K MAC Address Table
- 9.6Kbytes Jumbo Frame Support
- Surge Protection: 2,000 VDC
- ESD Protection: 6,000 VDC
- 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: EOT: -40° to 75°C
- 5-Year Warranty

## INTRODUCTION

**Antaira Technologies' LNP-1002G-SFP-T-CC** industrial PoE/PoE+ gigabit unmanaged Ethernet switch features 8\*10/100/1000Tx ports, which support IEEE 802.3at high power PoE (30W/Port), and two dual rate 100/1000Fx SFP slots. This product series provides high EFT and ESD protection to protect against unregulated voltage. It also provides extended operation temperature of -40° to 75°C. The LNP-1002G-SFP-T-CC is an ideal solution for harsh environments and industrial applications.

Conformal coating is a specialty film which conforms to the contours of the printed circuit board to protect the board from adverse environmental conditions. Antaira's conformal coating process meets or exceed the standards for protection against gases, dust, and water.



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# SPECIFICATIONS

Technology		Me
Standards	IEEE 802.3 10BaseTx Ethernet IEEE 802.3u 100BaseTx Fast Ethernet IEEE 802.3ab 1000BaseTx IEEE 802.3z Gigabit Fiber IEEE 802.3at PoE+	Ho Dir We
Processing Type	Store and Forward	Mo Er
Protocol	CSMA/CD	
Flow Control	IEEE 802.3x back pressure flow control	Te
Switch Properties		Ste
Switch Architecture Transfer Rate	Back-Plane (Switching Fabric): 10Gbps 14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	An Hu Re
Jumbo Frame	1,488,000pps for Gigabit Ethernet Port 9.6Kbytes	EN
MAC Table Size	8K	EN
Interface		Fre
Ethernet Port	8*RJ45 Ports w/10/100/1000Tx (PSE: 30W/Port)	Sh Vil
Fiber Port	2*100/1000 SFP Slots	Gr
PoE Pin Out	V+, V+, V-, V- for pins 1,2,3,6 Endspan, MDI Alternative A	Ce
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 Requirement	t	Co
Input Voltage	48~55VDC, Redundant Input	_
Power Connection	1 removable 6-contact terminal block	_
Reverse Polarity Protection	Present	Wa
Overload Current Protection	Present	_
Power Consumption	210 Watts @ 48V 250 Watts @ 51-55V (Full Load w/ PoE)	_

Mechanical Characteristics		
Housing	Metal, IP30 protection	
Dimensions	46 x 99 x 142mm	
Weight	Unit: 1.5 lbs Shipping: 2.0 lbs	
Mounting	DIN-Rail, Wall-mount (optional)	
<b>Environmental Limits</b>		
Operating EOT: -40° to 75°C		
Storage Temperature	-40°~85°C	
Ambient Relative Humidity	5 to 95%, (Non-condensing)	
<b>Regulatory Approvals</b>		
EMI	FCC Class A	
EMS	EN61000-4-2,3,4,5,6,8,11,12 EN61000-6-2,4	
Free Fall	IEC60068-2-32	
Shock	IEC60068-2-27	
Vibration	IEC60068-2-6	
Green	RoHS Compliant	
Certifications	FCC, CE, UL 61010-1, UL 61010-2-201, UL Class 1 Division 2, ISA 12.12.01	
Corrosion Prevention	IEC 60068-2-11, IEC 60068-2-52, IEC 60068-2-60 IPC-CC-830B, MIL-I-46058C, IEC 61086-2 (Class 2), UL 94, UL 746E ISO 9223 (Class C5-Very High, Class GX-Severe) ANSI/ISA 71.04 (Class GX-Severe)	
Warranty	5 Years	

## **ORDERING INFO**

LNP-1002G-SFP-T-CC	-SFP-T-CC 10-Port Industrial PoE+ Gigabit Unmanaged Switch, with 8*10/100/1000Tx (30W/Port) and 2*100/1000 SFP Slots, EOT: -40° to 75°C, with Conformal Coating	
<b>Optional Accessories</b>		
MDR-100-48	100W Industrial Single Output Miniature DIN-Rail Power Supply, 48VDC	
DR-120-48	120W Industrial DIN-Rail Power Supply, 48VDC	
SDR-120-48	120-48 120W Industrial Single Output Miniature DIN-Rail Power Supply, 48VDC	
SDR-240-48	240W Industrial Slim & High Efficiency DIN-Rail Power Supply with PFC Function, 48VDC	



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## LNP-1202G-SFP Series

12-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 10\*10/100/1000Tx (w/8\*PSE: 30W/Port), and 2\*100/1000 SFP Slots



Features

2-Port 100/1000 SFP

Supports Auto MDI/MDI-X Function

Supports 8\*10/100/1000Tx IEEE 802.3at PoE+

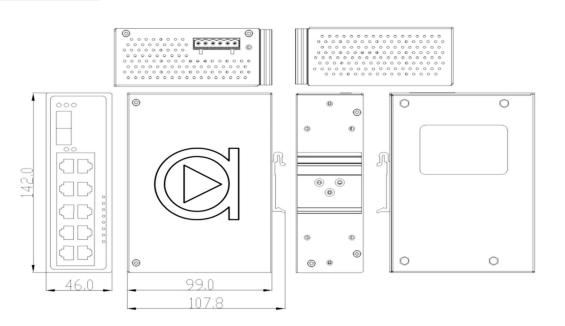
Compliant with 30W/Port, +2\*10/100/1000Tx, and

## INTRODUCTION

Antaira Technologies' LNP-1202G-SFP industrial PoE+ gigabit unmanaged Ethernet switch features ten Gigabit ports, of which eight ports support IEEE 802.3at high power PoE (30W/Port). The LNP-1202G-SFP also provides two 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. Plus, it provides two wide operating temperature models to support either a -10° to 70°C or -40° to 75°C environment.

The LNP-1202G-SFP product 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





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## SPECIFICATIONS

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Standards	IEEE 802.3 10BaseTx Ethernet IEEE 802.3u 100BaseTx Fast Ethernet IEEE 802.3ab 1000BaseTx IEEE 802.3z Gigabit Fiber IEEE 802.3at PoE+	
Processing Type	Store and Forward	
Protocol	CSMA/CD	
Flow Control	IEEE 802.3x back pressure flow control	
Switch Properties		
Switch Architecture	Back-Plane (Switching Fabric): 24Gbps	
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port	
Protection	Surge: 2,000VDC & ESD: 6,000VDC	
Memory Buffer	7,926pps (default)	
Jumbo Frame	9.6Kbytes	
MAC Table Size	8K	
Interface		
Ethernet Port	10*10/100/1000Tx RJ45 (w/8*PSE: 30W/Port)	
Fiber Port	2*100/1000 SFP Slot	
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	
<b>Power Requirements</b>		
Input Voltage	48-55VDC, Redundant Input	
Overload Current Protection	Present	
Connection	1 removable 6-contact terminal block	
Reverse Polarity Protection	Yes	
Power Consumption	Unit Consumes 10 Watts Full load w/PoE 215W@48V / 255W@51~55V	

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	Mechanical Characteristics		
Housing	Metal, IP30 protection		
Dimensions	46 x 99 x 142 mm (W*D*H)		
Weight	Unit: 1.8lbs. Shipping Weight: 2.3 lbs.		
Mounting	DIN-Rail and Wall mounting Provided		
<b>Environmental Limits</b>			
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)		
<b>Regulatory Approvals</b>	i		
EMI	FCC 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, UL 61010-1, UL 61010-2-201, UL Class 1 Division 2, ISA 12.12.01		
	UL CIASS I DIVISION 2, ISA 12.12.01		

## ORDERING INFO

LNP-1202G-SFP	12-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 10*10/100/1000Tx (30W/Port), and 2*100/1000 SFP; 48~55VDC input
LNP-1202G-SFP-T	12-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 10*10/100/1000Tx (30W/Port), and 2*100/1000 SFP Slot; 48~55VDC input; EOT: -40 to 75C
<b>Optional Accessories</b>	
MDR-100-48	100W Industrial Din Rail Power Supply, 48VDC
SDR-120-48	120W Industrial Din Rail Power Supply, 48VDC
SDR-240-48	240W 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



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## LNP-1204G-SFP Series

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12-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, with 8\*10/100/1000Tx (PSE: 30W/Port), and 4\*100/1000 SFP Slots

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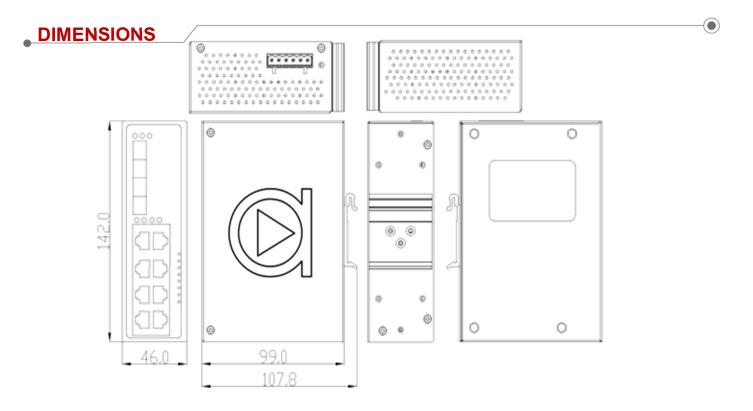
#### Features

- Supports 8\*10/100/1000Tx IEEE 802.3at PoE+ Compliant with 30W/Port, + 4-Port 100/1000 SFP
- Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- 24Gbps Back-Plane (Switching Fabric)
- 8K MAC Address Table
- 9.6Kbytes Jumbo Frame Support
- 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-1204G-SFP series** industrial PoE+ gigabit unmanaged Ethernet switch features eight Gigabit ports with IEEE 802.3at high power PoE (30W/Port). The LNP-1204G-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. Plus, it provides two wide operating temperature models to support either a -10 to 70°C or -40 to 75°C environment.

The LNP-1204G-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.





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## SPECIFICATIONS

#### Technology

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Standards	IEEE 802.3 10BaseTx Ethernet IEEE 802.3u 100BaseTx Fast Ethernet IEEE 802.3ab 1000BaseTx IEEE 802.3z Gigabit Fiber IEEE 802.3at PoE+	
Processing Type	Store and Forward	
Protocol	CSMA/CD	
Flow Control	IEEE 802.3x back pressure flow control	
Switch Properties		
Switch Architecture	Back-Plane (Switching Fabric): 24Gbps	
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port	
Protection	Surge: 2,00VDC & ESD: 6,000VDC	
Memory Buffer	7,926pps (default)	
Jumbo Frame	9.6Kbytes	
MAC Table Size	8K	
Interface		
Ethernet Port	8*10/100/1000Tx RJ45 (w/8*PSE: 30W/Port)	
Fiber Port	4*100/1000 SFP Slot	
PoE Pin out	V+, V+, V-, V- for pin s 1,2,3,6 Endspan, MDI Alternative A	
Network Cable   10Base Tx: 2-pair UTP/STP Cat. 3     100Base Tx: 2-pair UTP/STP Cat. 3   100Base Tx: 2-pair UTP/STP Cat. 3     100Base Tx: 2-pair UTP/STP Cat. 3   1000Base Tx: 2-pair UTP/STP Cat. 3		
Power Requirements		
Input Voltage	48~55VDC, Redundant Input	
Overload Current Protection	Present	
Connection	1 removable 6-contact terminal block	
Reverse Polarity Protection	Yes	
Power Consumption	Unit Consumes 15 Watts Full load w/PoE 215W@48V / 255W@51~55V	

Mechanical Characteristics			
Housing	Metal, IP30 protection		
Dimensions	46 x 99 x 142 mm (W*D*H)		
Weight	Unit: 1.8 lbs. Shipping Weight: 2.3 lbs.		
Mounting	DIN-Rail, wall mounting (optional)		
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 Approva	ls		
EMI	FCC 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, UL 61010-1, UL 61010-2-201		
Warranty	5 Years		

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LNP-1204G-SFP	12-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, w/ 8*10/100/1000Tx (30W/Port), and 4*100/1000 SFP Slot; 48~55VDC input
LNP-1204G-SFP-T	12-Port Industrial PoE+ Gigabit Unmanaged Ethernet Switch, w/ 8*10/100/1000Tx (30W/Port), and 4*100/1000 SFP Slot; 48~55VDC input; EOT: -40 to 75C
<b>Optional Accessories</b>	
MDR-100-48	100W Industrial Din Rail Power Supply, 48VDC
SDR-120-48	120W Industrial Din Rail Power Supply, 48VDC
SDR-240-48	240W 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



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# LNP-1604G-SFP Series

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





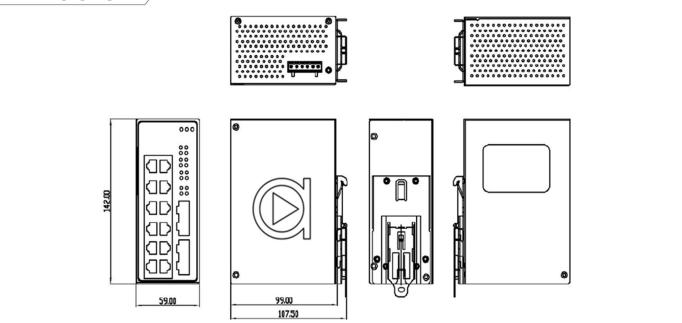
#### **Features**

- 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





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## SPECIFICATIONS

#### Technology

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)	
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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	STD: -10° to 70°C		
Temperature	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)		

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	
<b>Optional Accessori</b>	es	
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	



## LNP-2602G-SFP Series

26-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, with 24\*10/100/1000Tx (PSE: 30W/Port), and 2\* Gigabit Combo Ports (2\*10/100/1000TX RJ45 and 2\*100/1000 SFP Slots)



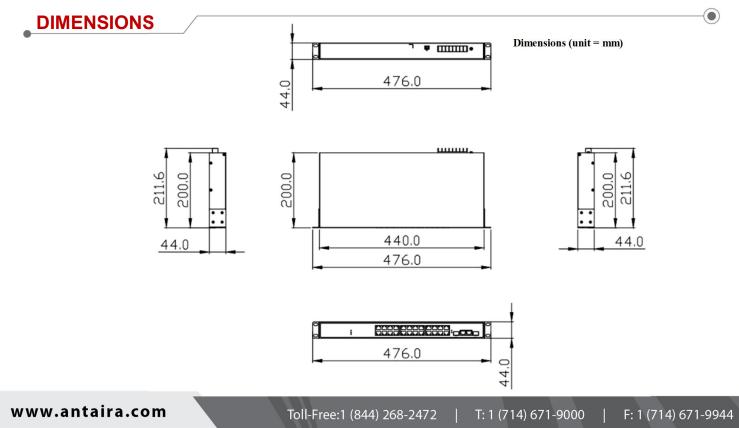
#### Features

- IP40 1U 19" Rackmount Rugged Metal Case Design
- 24-port 10/100/1000Tx RJ45 Ethernet (with full 24-port PoE+ output power up to 30W/port)
- 2\* Gigabit Combo Ports (2\*10/100/1000Tx RJ45 and 2\*100/1000 SFP Slot)
- 9.6Kbytes Jumbo Frame Support
- Redundant Power Input Design: 48~55VDC
- Built-in 1 Relay Output for Power Failure Warning
- Operating Temperature Range STD: -10° to 70° C, EOT: -40° to 75° C
- **5**-Year Warranty

## INTRODUCTION

Antaira Technologies' LNP-2602G-SFP industrial gigabit PoE+ unmanaged Ethernet switch features twenty-four Gigabit ports with IEEE 802.3at high power PoE (30W/Port). The LNP-2602G-SFP also provides two gigabit combo ports with two 10/100/1000 Twisted pair and two dual rate 100/1000Fx SFP ports for fiber or twisted pair connections to support any applications that demand high PoE power support, high bandwidth and long distance communication within any harsh and extreme ambient weather environment. This product series also provides high EFT and ESD protection to prevent any unregulated voltage, and provides two wide operating temperature models with standard version in -10 to 70°C, or extended version in - 40 to 75°C.

The LNP-2602G-SFP product 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 and oil/gas/mining.





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## SPECIFICATIONS

Technology		
Standards	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX 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	4Mbits	
Jumbo Frame	9.6Kbytes	
MAC Table Size	8K	
Interface		
Ethernet Port	24*10/100/1000Tx RJ45 (w/24*PSE: 30W/Port)	
PoE Pin out	V+, V+, V-, V- for pins 1,2,3,6 Endspan, MDI/MDIX Alternative A	
Gigabit Combo Port (Copper/SFP)	2*RJ45 Ports w/10/100/1000Tx Ethernet and 2*100/1000 SFP Slot	
Wavelength	Refer to SFP module	
Network Cable	10BaseTx: UTP/STP Cat. 3,5 100BaseTx: UTP/STP Cat. 5 1000BaseTx: UTP/STP Cat.5/5e/6	
Power Requirements		
Input Voltage	48~55VDC, Redundant Input	
Overload Current Protection	Present (Slow-Blown Fuse)	
Reverse Polarity Protection	Yes	
PoE Power Output	30 Watts max. per PoE port	
Power Consumption	24 Watts for System	
Max PoE Power Budget	720 Watts	
Relay Contact	24VDC, 1A resistive	
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Mechanical Characte	eristics		
Housing	Metal, IP40 protection		
Dimensions	440 x 44 x 200 mm (W x H x D)		
Weight	Unit Weight: 6.0 lbs., Shipping Weight: 8.0 lbs.		
Mounting	1U 19" Rackmount		
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			
ЕМІ	FCC Part 15 Subpart B Class A, CE EN 55022 Class A		
EMS	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	IEC60068-2-32		
Shock	IEC60068-2-27		
Vibration	IEC60068-2-6		
Green	RoHS Compliant		
Safety	UL 61010-1, UL 61010-2-201		
Warranty	5 Years		

## ORDERING INFO

LNP-2602G-SFP	26-Port Industrial Gigabit PoE+ Ethernet Switch, w/24*10/100/1000Tx (PSE: 30W/port), and 2* Gigabit Combo Ports (2*10/100/1000Tx RJ45 and 2*100/1000 SFP Slot)	
LNP-2602G-SFP-T	26-Port Industrial Gigabit PoE+ Ethernet Switch, w/24*10/100/1000Tx (PSE: 30W/port), and 2* Gigabit Combo Ports (2*10/100/1000Tx RJ45 and 2*100/1000 SFP Slot); EOT: -40° to 75° C	
<b>Optional Accessories</b>	3	
SFP-M-T	1.25Gbps Ethernet SFP Transceiver, Multi-Mode 550M / LC / 850nm, -40°C~85°C	
SFP-S10-T	1.25Gbps Ethernet SFP Transceiver, Single Mode 10KM / LC / 1310nm, -40°C~85°C	
SDR-960-48	960W Industrial DIN Rail Power Supply, 48VDC	



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# **LNP-C500G Series**

Compact 5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4\*10/100/1000Tx (PSE: 30W/Port) + 1\*10/100/1000Tx



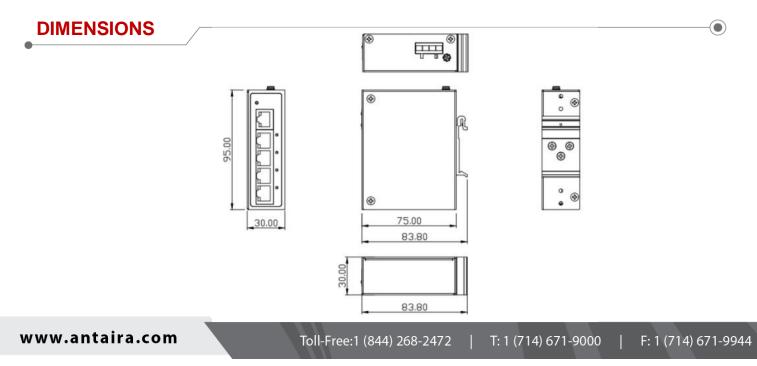
#### Features

- Compact Industrial Grade Design
- Supports 4\*10/100/1000Tx Gigabit Ethernet Ports (PSE: 30W/Port) and 1\*10/100/1000Tx Port
- Supports Auto MDI/MDI-X Function
- Jumbo Frame Support: 10k
- Surge Protection: 2,000 VDC Support
- ESD Protection: 6,000 VDC Support
- Provide Max. 120W Full PoE Power Budget
- Redundant Power Input Design: 48~55VDC
- Power Polarity Reverse Protection
- Overload Current Protection
- IP30 Rugged Metal Case Design
- DIN-Rail and Wall Mount Support
- Operating Temperature Range: STD: -10°C to 70°C, EOT: -40°C to 75°C
- 5-Year Warranty

## INTRODUCTION

**Antaira Technologies' LNP-C500G series** is a compact 5-port industrial gigabit PoE+ unmanaged Ethernet switch. The small form factor of this metal IP30 rated design is 50% smaller which allows for a more versatile implementation. The LNP-C500G series is equipped with 4\*10/100/1000Tx Ethernet ports that support IEEE 802.3af/at for a maximum of 30W/port and 1\*10/100/1000Tx Ethernet port. The LNP-C500G series can handle high bandwidth applications in tight spaces.

The LNP-C500G series supports high EFT & ESD protection through the redundant power inputs that support reverse polarity and overload current protection. This product series supports DIN-rail as well as wall mountable orientations and provides operating temperature range models in STD: -10°C to 70°C and EOT: -40°C to 75°C. This is an industrial grade unit applicable for networking applications in factory automation, ITS, power/utility, water wastewater treatment plants, or any application that needs a compact solution.



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# SPECIFICATIONS

Technology		Mechanical Characteris	tics
Standards	IEEE 802.3 10Tx Ethernet IEEE 802.3U 100Tx Fast Ethernet IEEE 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3ab/at Power over Ethernet	LED Indicator	Power Ethernet Ports: On – Link / Flash - data transmitting PoE: On – connected to PD devices
Switch Properties		Housing	Metal, IP30 rated
Protocol	CSMA/CD	Dimensions	30 x 95 x 75 mm (W*H*D)
Data Process	Store and Forward	Weight	Unit: 0.77 lb; Shipping: 0.99 lb
	14,880pps for 10Base-T Ethernet port	Mounting	DIN-Rail; Wall-mount (optional)
Transfer Rate	148,800pps for 100Base-T Fast Ethernet port	Power Requirement	
	1,488,000pps for 1000Base-T Gigabit Ethernet	Input Voltage	48~55VDC, Redundant Input
Memory Buffer	1 Mbit	Power Connection	1 removable 4-contact terminal block
MAC Table Size	8K	Power Consumption	5.5 Watts for system
Jumbo Frame	10K bytes	Max. PoE Power Budget	120Watts
Flow Control IEEE 802.3x flow control, back pressure flow control		Environmental Limits	
Port Interface		Operating Temperature	STD: -10°C to 70°C EOT: -40°C to 75°C
5*10/100/1000BaseTx with 4*PoE+, auto Ethernet RJ45 Port negotiation speed, Full/Half duplex mode, and	Storage Temperature	-40°C ~ 85°C	
auto MDI/MDI-X connection RJ-45 port #1~#4 support IEEE 802.3af End-		Ambient Relative Humidity	5 to 95%, (non-condensing)
<b>PoE Pin</b> point, Alternative A mode.		Regulatory Approvals	
Assignment	Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1, 2, 3, 6)	EMI	FCC Part 15 Subpart B Class, CE EN 55022 Class A
Protection		EMS	EN 61000-6-2, EN 61000-6-4
Overload Current	Present	Free Fall	IEC 60068-2-32
Protection		Shock	IEC 60068-2-27
Reverse Polarity	Present	Vibration	IEC 60068-2-6
Protection		Green	RoHS Compliant
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable; 100Base-TX: 2-pair UTP/STP Cat. 5 cable.	Certifications	FCC, CE, UL-61010-1, 61010-2-201
	1000Base-Tx 4-pair UTP/STP Cat. 5/5e/6 cable	Warranty	5 Years

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LNP-C500G	Compact 5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (PSE: 30W/Port) + 1*10/100/1000Tx
LNP-C500G-T	Compact 5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (PSE: 30W/Port) + 1*10/100/1000Tx; EOT: -40°C to 75°C
<b>Optional Accesso</b>	pries
DR-75-48	75 Watt Series / 48 VDC / 1.6 Amps Industrial Single Output DIN Rail Power Supply
DR-120-48	120 Watt Series / 48 VDC / 2.5 Amps Industrial Single Output DIN Rail Power Supply
SDR-120-48	120 Watt Series / 48 VDC / 2.5 Amps Industrial Slim High-Efficiency Single Output DIN Rail Power Supply
SDR-240-48	240 Watt Series / 48 VDC / 5.0 Amps Industrial Slim High-Efficiency Single Output DIN Rail Power Supply
SDR-480-48	480 Watt Series / 48 VDC / 10.0 Amps Industrial Slim High-Efficiency Single Output DIN Rail Power Supply