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Antaira Technologies

LNP-1604G-SFP series

16-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switches
with 12*10/100/1000Tx (PSE: 30W/port) + 4*100/1000 SFP Slots

Quick Installation Guide

Version 1.0
(February 2020)

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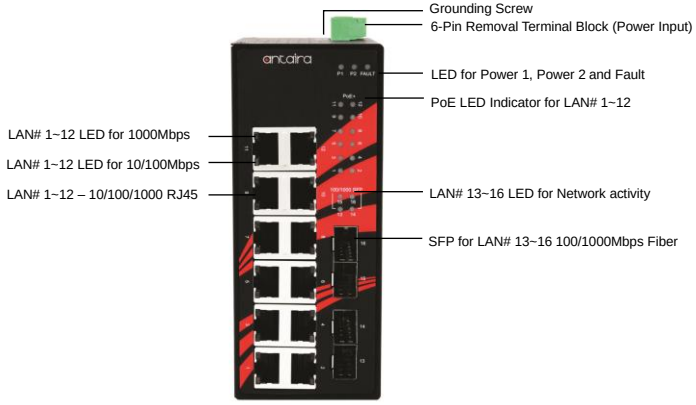
Package Check List

The package contains the following items:

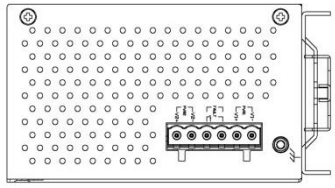
- 1 – Quick Installation Guide
- 1 – LNP-1604G (-T) Series
- 1 – Wall mounting bracket set with screws
- 1 – DC cable –18 AWG & DC jack 5.5x2.1mm
- 1 – Dust cover set

Front Panel Layout



Top Panel View

LNP-1604G-SFP series top panel is equipped with one 6-pin removal terminal block connector for dual DC power inputs (48~55VDC).



Product Overview

System Interface/Performance

- All RJ-45 ports support the auto MDI/MDI-X function
- Ethernet connectivity 12*10/100/1000Tx (w/PSE: 30W/port) RJ45 ports
- Fiber connectivity with 4*100/1000 Dual rate SFP slots
- Store-and-forward switching architecture
- 8k MAC address table
- Jumbo frame support up to 12.2k
- Power line EFT protection: 2,000VDC; Ethernet ESD protection: 6,000VDC

Power Input& Connection

- DC 48~55VDC redundant power, with a 6-pin removal terminal block
- It is recommended to using UL listed Industrial Power Supply

Operating Temperature

- Standard operating temperature model: -10°C ~ 70°C
- Extended operating temperature model (–T): -40°C ~ 75°C

Case/Installation

- IP-30 protection
- DIN-Rail and wall mount design

Safety Precaution

If the DC voltage is supplied by an external circuit, please use a protection device on the power supply input.

LED Indicators

LED	Color	Description	
Power 1	Green	On	Power input 1 is active
		Off	Power input 1 is inactive
Power 2	Green	On	Power input 2 is active
		Off	Power input 2 is inactive
Fault	Red	On	Power input 1 or 2 is inactive
		Off	Both power input 1 and 2 are active
PoE Status	Green	On	The port is supplying power to the powered-device
		Off	No powered-device attached or power supplying fails
Link Activity (SFP Port)	Green	On	Connected to network, 1000Mbps
		Flashing	Networking is active
		Off	Not connected to the network
	Amber	On	Connected to network, 100Mbps
		Flashing	Networking is active
		Off	Not connected to the network
LAN Port 1~ 12 (Upper LED)	Green 	On	Connected to network, 1000Mbps
		Flashing	Networking is active
		Off	Not connected to network
LAN Port 1~ 12 (Lower LED)	Green 	On	Connected to network, 10/100Mbps
		Flashing	Networking is active
		Off	Not connected to network

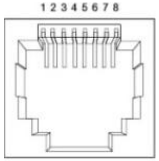
Quick Installation

Ethernet Port

RJ45 Ports (Auto MDI/MDIX)

All RJ-45 ports are auto-sensing for 10Base-T, 100Base-TX or 1000Base-T devices connections. Please follow below wiring pin assignment table for Ethernet port installation.

RJ45 Ethernet Port Pin Outs					
Pins	T568A Color	T568B Color	10/100 Base-T(X)	1000 Base-T	PoE
Pin	White/Green	White/Orange	Rx+	TP0+	DC+
Pin	Green	Orange	Rx-	TP0-	DC+
Pin	White/Orange	White/Green	Tx+	TP1+	DC-
Pin	Blue	Blue	unused	TP2+	
Pin	White/Blue	White/Blue	unused	TP2-	
Pin	Orange	Green	Tx-	TP1-	DC-
Pin	White/Brown	White/Brown	unused	TP3+	
Pin	Brown	Brown	unused	TP3-	



SFP Slots
The small form-factor pluggable (SFP) is a compact optical transceiver used in optical communications.

Please follow below steps for connecting the SFP and LC cable:
1. Insert the SFP transceiver module into the SFP slot as shown below in *Figure 1 (*Notice that the triangle mark is at the bottom of the SFP slot).*Figure 2* shows SFP transceiver module was inserted.

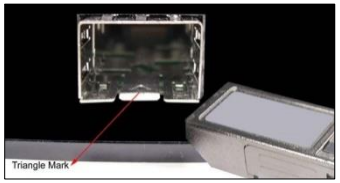


Figure 1


Figure 2

2. Insert the fiber cable of the LC connector into the transceiver as shown below in *Figure 3.*

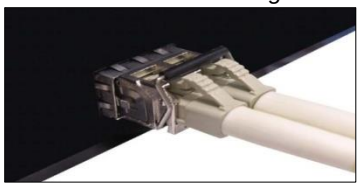


Figure 3

Power Inputs Wiring
Please follow the below steps to insert the power wire:
1. Insert the positive and negative wires into the **PWR1 (V1+, V1-)** and **PWR2 (V2+, V2-)** contacts on the terminal block connector as shown below in *Figure 4.*
2. Tighten the wire-clamp screws to prevent the wires from loosening, as shown below in *Figure 5.*

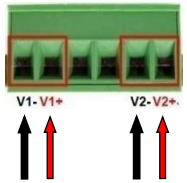


Figure 4


Figure 5

Industrial Switch Mounting

DIN-Rail Mounting
The DIN-Rail bracket is pre-installed on the industrial Ethernet switch from the factory. Please refer to *Figure 6* for DIN-Rail bracket installation reference.


Figure 6

Follow below steps for installing the Industrial Switch on the DIN-Rail track:
1. Insert the top of the DIN-Rail on to the track as shown below in *Figure 7.*
2. Lightly pull down the bracket on to the rail as shown below in *Figure 8.*
3. Check if the bracket is mounted tightly on the rail.
4. To remove the industrial Ethernet switch from the rail, do the opposite from the above steps.


Figure 7

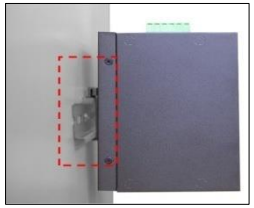


Figure 8

Wall Mounting
Follow the steps below to mount the industrial Ethernet switch using the wall mounting bracket as shown below in *Figure 9.*
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1. Remove the DIN-Rail bracket from the industrial Ethernet switch by loosening the screws.
2. Place the wall mounting brackets on the top and bottom of the industrial Ethernet switch.
3. Use the screws to screw the wall mounting bracket on the industrial Ethernet switch.
4. Use the hook holes at the corners of the wall mounting bracket to hang the industrial Ethernet switch on the wall.
5. To remove the wall mount bracket, do the opposite from the steps above.


Figure 9

Field Maintenance and Service
- If the device requires servicing of any kind, the user is required to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.
- Voltage/Power lines should be properly insulated as well as other cables. Be careful when handling them so as to not trip over.
- Do not under any circumstance insert foreign objects of any kind into the heat dissipation holes located in the different faces of the device. This may not only harm the internal layout, but might cause harm to user as well.
- Do not under any circumstance open the device for any reason. Please contact your dealer for any repair needed or follow the instructions within the manual.

Warranty Policy

Warranty Conditions
Products supplied by Antaira Technologies are covered in this warranty for sub-standard performance or defective workmanship. The warranty is not, however, extended to goods damaged in the following circumstances:
(a) Excessive forces or impacts
(b) War or an Act of God: wind storm, fire, flood, electric shock, earthquake
(c) Use of unqualified power supply, connectors, or unauthorized parts/kits
(d) Replacement with unauthorized parts

RMA and Shipping Costs Reimbursement
Customers shall always obtain an authorized "RMA" number from Antaira before shipping the goods for repair or replacement.
- Within the warranty period (based on the invoice date), all parts and labor are free of charge to the customers.
- Customers are required to be responsible for the cost of parts and labor, if the products are out of warranty.
- For RMA service, customers are required to be responsible for the shipping expense for shipping the RMA unit(s) to Antaira; and Antaira will be responsible for the shipping expense by ground service for the return repair/replace unit(s) back to customers.

Limited Liability
Antaira would not be held responsible for any consequential losses from using Antaira's product.

Warranty Period
5-Year Warranty

Antaira's Customer Service and Support
- Antaira's Technical Service & Support Centers:
  + 844-268-2472 (Antaira US Headquarter)
  + 48-22-862-88-81 (Antaira Europe Office)
  + 886-2-2218-9733 (Antaira Asia Office)

- Antaira's Web Sites & Repair/Support Emails:
  www.antaira.com / support@antaira.com
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  www.antaira.com.tw / info@antaira.com.tw

***Any changes will be announced on the Antaira website.**