



## Antaira Technologies

### LNP-0800G-M12-67-24 Series

8-Port M12 Industrial IP67 Waterproof Gigabit PoE+ Ethernet Switch, with 8\*10/100/1000Tx with M12 Connector

## Quick Installation Guide

Version 1.0  
(June 2023)



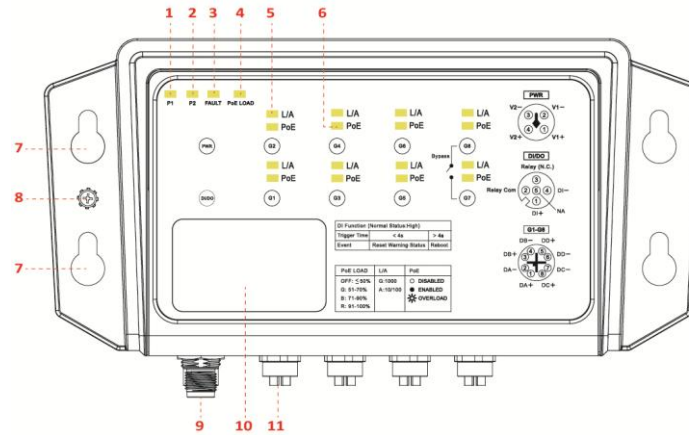
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## Package Check List

The package contains the following items:

- 1 – Quick installation guide
- 1 – LNP-0800G-M12-67-24(-T)
- 10 – M12 protective caps

## Front Panel Layout



1. Power 1 LED
2. Power 2 LED
3. Fault LED
4. PoE Load LED
5. 10/100/1000Mbps Link/Act LED
6. PoE Output LED
7. Screw Holes for Wall Mounting
8. Grounding Screw
9. Power Input Port: M12 4-Pin T-Coded Male Connector
10. Product Label
11. 10/100/1000Base-T(X) Ethernet Port: From port G1 to G8 with M12 8-Pin X-Coded Female Connector

## Product Overview

### System Interface/Performance

- All Ethernet ports support the auto MDI/MDI-X function
- M12 connector with IP67 rated protection
- Store-and-forward switching architecture

### Power Input & Connection

- DC 24 to 55V redundant power
- It is recommended to use a UL listed industrial power supply

### Operating Temperature

- Standard operating temperature model: -1 0°C to 60°C
- Extended operating temperature model: -40°C to 70°C

### Case/Installation

- IP67 protection
- Wall Mount design

## LED Indicators


LED	Color	Description	
		State	Description
P1	Green	On	Power input 1 is active
		Off	Power input 1 is inactive
P2	Green	On	Power input 2 is active
		Off	Power input 2 is inactive
FAULT	Red	On	There were three possible conditions would make LED light up: 1. If the current PoE output of all connected PDs was overload (>200 Watts) 2. If Power 1 or Power 2 was inactive 3. If the current PoE output of one or more PDs were overload (>30Watts)
		Off	Since the last reset of the FAULT LED, the PoE output of all connected PDs has not over 200W and no PD has been overloaded in this period and the power 1 & power 2 have not failed
PoE LOAD	Blue	Off	The current PoE output of all connected PDs is ≤ 50%
		Green	The current PoE output of all connected PDs is 51% ~ 70%
		Blue	The current PoE output of all connected PDs is 71% ~ 90%
		Red	The current PoE output of all connected PDs is 91% ~ 100%
Note: The Max. PoE output of this switch is 200Watts.			
L/A (G1 to G8)	Green	On	Connected to network with 1000 Mbps
		Flashing	Networking is active
		Off	Not connected to network
Amber	Amber	On	Connected to network with 10/100 Mbps
		Flashing	Networking is active
		Off	Not connected to network
PoE (G1 to G8)	Orange	On	The current PoE output is enabled
		Flashing	Overload occurred (>30Watts) at the connected PD
		Off	The current PoE output is disabled

## Quick Installation

### Ethernet Ports

### M12 Ports (Auto MDI/MDI-X)


All M12 ports (8-Pin X-Coded Female Connector) are auto-sensing for 10Base-T, 100Base-TX, or 1000Base-T device connections. Please follow the wiring pin assignment table below for Ethernet port installation.

Illustration	Pinouts	10/100Base-T(X) Signal	1000Base-T Signal
	1	Transmit Data +	BI_DA+
	2	Transmit Data -	BI_DA-
	3	Receive Data +	BI_DB+
	4	Receive Data -	BI_DB-
	5		BI_DD+
	6		BI_DD-
	7		BI_DC-
	8		BI_DC+

**NOTE:** Recommended use the wire gauge between 18AWG.

### Power Input Wiring


- Input voltage: 24-55VDC
- Dual DC power inputs for power redundancy
- Connection format: M12 4-Pin T-Coded male connector
- Suggest using UL listed industrial power supply
- Pin assignment of M12 power connector:

Illustration	Pinouts	Function
	1	Power Input 1 + (V1+)
	2	Power Input 1 - (V1-)
	3	Power Input 2 - (V2-)
	4	Power Input 2 + (V2+)

**NOTE:** Recommended use the wire gauge between 24AWG.

### Relay Contact and Digital Input

- Connection format: M12 5-Pin A-Coded Female Connector
- Minimum Wire Gauge: 24AWG

Illustration	Pinouts	Function	Function
	1	DI+	Digital Input +
	2	Relay Com	Relay Common
	3	Relay (N.C.)	Normally Closed
	4	DI-	Digital Input -
	5	NA	Not Assigned

By using a M12 5-Pin A-Coded cable to connect the normally closed relay contact, it will detect the fault status and form an open circuit when any of the following abnormal conditions occurs:

1. If the current PoE output of all connected PDs was overload (>200 Watts)
  2. If the current PoE output of one or more PDs were overload (>30Watts)
  3. If Power input 1 or Power 2 was inactive
- Digital Input (DI)

The digital input is used for monitoring two external events via an external voltage source. When the voltage level on digital input pins changes from high voltage to low voltage, the DI function will be triggered. Below table is shown a detail specification of the digital input.

Specification		Description
Level 0 (Low)	-30~8VDC	Will trigger DI function (active trigger states)
Level 1 (High)	10~30VDC	Normal Status (inactive trigger states)
Nominal input voltage	24VDC	
Max. input voltage	30VDC	
Nominal input current	5mA (typical)	
Max. input current	8mA	

If the fault status happens, you have to use DI function to reset the Fault LED, so there are two DI functions this unit supports for manually reset or reboot the device:

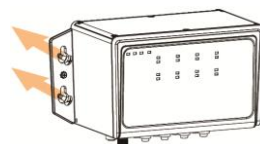
1. When the trigger time < 4 seconds, the relay contact will be reset and the Fault LED light down.
2. When the trigger time > 4 seconds, the Ethernet switch will be rebooted.

### Bypass Function

This Ethernet switch supports bypass function by two Ethernet ports (G7 and G8). When one of the Ethernet switches loses power, Ethernet ports (G7 and G8) will bypass the power lost Ethernet switch to prevent the network from disconnecting.

### Wall Mounting Installation

Follow the steps below to mount the switch to a wall using the screw holes.



- Step 1.** Prepare 4 screws for mounting the switch to a wall. (Recommended use the M6 screws.)
- Step 2.** Based on the positions of 4 screw holes on the left and right side of the switch to make 4 screw holes on a wall accordingly.
- Step 3.** Insert the screws through the screw holes on the switch and screw the switch into the wall.
- Step 4.** To remove the switch from the wall, do the opposite from the steps above.

**\*WARNING:** When connecting PoE ports of an Ethernet Switch to non-standard Ethernet ports of a device, such as those with GND or low voltage surge protection and other alterations to IEEE 802.3 standard, **DAMAGE MAY OCCUR** to either or both devices. Devices with ports like these should be connected to non-PoE ports on the switch.

## 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 responsible for the cost of parts and labor, if the products are out of warranty.
- For RMA service, customers are responsible for the shipping expense for shipping the RMA unit(s) to Antaira. Antaira is responsible for the shipping expense via a 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](http://www.antaira.com) / [support@antaira.com](mailto:support@antaira.com)
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**\*Any changes will be announced on the Antaira website.**