

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

8-Port Industrial M12 IP67 Waterproof Gigabit PoE+ Ethernet Switch, w/8\*10/100/1000Tx (30W/Port) M12 Connector (X-Coded)



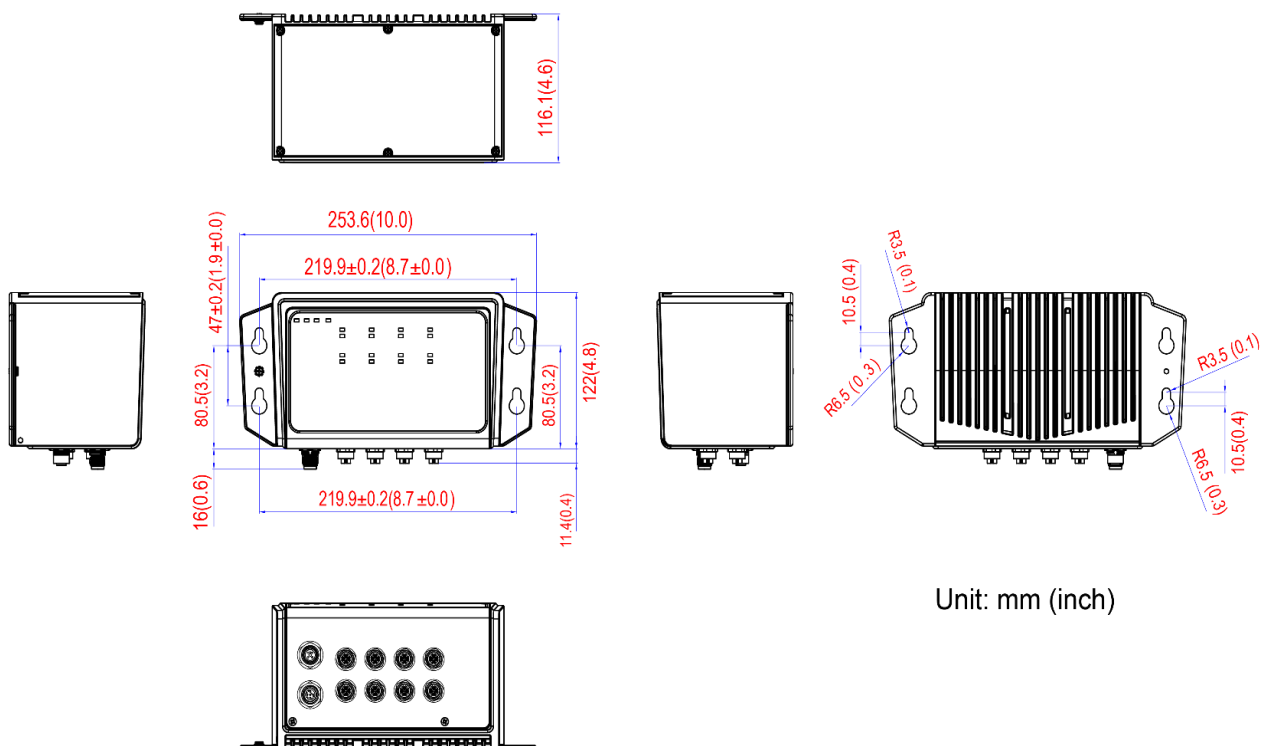
## Features

- ▶ 8-Port 10/100/1000Tx Ethernet with IEEE 802.3at Compliant PoE+
- ▶ Redundant Power Inputs Design, 24~55VDC
- ▶ Built-in Power Booster Design for PoE/PoE+ Output
- ▶ Built-in Relay Output Warning for Power/PoE Failure
- ▶ Bypass Design for Daisy Chain Redundancy
- ▶ Support Digital Input/Digital Output
- ▶ IP67 Rugged Waterproof Metal Case Design
- ▶ M12 X-Coded Connector for Ensure Tight and Robust Connection
- ▶ Operating Temperature Range – STD: -10° to 60°C, EOT: -40° to 70°C
- ▶ Wall Mountable
- ▶ 5-Year Warranty

## INTRODUCTION

**Antaira Technologies' LNP-0800G-M12-67-24 Series** is an 8-port 10/100/1000Tx M12 IP67 PoE+ industrial Ethernet switch that meets the high-reliability requirements demanded by industrial applications. Its M12 connectors ensure a tight and robust connection and it guarantees reliable operation on applications that are subject to high vibration and shock in dust, liquid or gas laden environments. Being able to operate under the standard temperature range from -10°C to 60°C or extended temperature range from -40°C to 70°C, the LNP-0800G-M12-67-24 Series can be installed in almost any harsh environment.

## DIMENSIONS



## SPECIFICATIONS

| Technology                 |                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                  | IEEE 802.3 10BaseT Ethernet                                                                                                                          |
|                            | IEEE 802.3u 100BaseTX Fast Ethernet                                                                                                                  |
|                            | IEEE 802.3ab 1000BaseT                                                                                                                               |
|                            | 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                | 12.2Kbytes                                                                                                                                           |
| MAC Table Size             | 8K                                                                                                                                                   |
| Interface                  |                                                                                                                                                      |
| Ethernet Port              | 8*10/100/1000BaseT(X) with 8*PoE+, 8-pin M12 X-coded female connectors, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection |
| DI                         | 1*Digital Input (DI): State 0: -30~8VDC / State 1: 10~30VDC, Max. input current: 8mA                                                                 |
| Bypass Protection          | Ethernet Port 7 and Port 8                                                                                                                           |
| LED Indicators             | Power 1, Power 2, Fault, PoE Load                                                                                                                    |
|                            | Ethernet Ports: On- link / Flash- data transmitting<br>PoE: On- connected to PD devices                                                              |
| Mechanical Characteristics |                                                                                                                                                      |
| Housing                    | Metal, IP67 protection                                                                                                                               |
| Dimensions                 | 253.57 x 122 x 116.12 mm (W x H x D)                                                                                                                 |
| Weight                     | Unit: 7.05 lbs.<br>Shipping: 8.82 lbs.                                                                                                               |
| Mounting                   | Wall mounting                                                                                                                                        |

| Power Requirement           |                                                                                                                                                                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage               | 24~55VDC, Redundant Power Inputs                                                                                                                                                                                                                                       |
| Power Connection            | 1*M12, 4-pin T-coded, male connector                                                                                                                                                                                                                                   |
| Reverse Polarity Protection | Present                                                                                                                                                                                                                                                                |
| Overload Current Protection | Present                                                                                                                                                                                                                                                                |
| Power Consumption           | 8Watts for system                                                                                                                                                                                                                                                      |
| PoE Power Output            | 30W max. per PoE port                                                                                                                                                                                                                                                  |
| Max. PoE Power Budget       | 200Watts                                                                                                                                                                                                                                                               |
| PoE Output Priority         | Port 1 to 8 (High priority to low priority)                                                                                                                                                                                                                            |
| Relay Contact               | 24VDC, 1A resistive, M12 5-pin A-coded female connector                                                                                                                                                                                                                |
| Environmental Limits        |                                                                                                                                                                                                                                                                        |
| Operating Temperature       | STD: -10°C ~ 60°C<br>EOT: -40°C ~ 70°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 55032 Class A, EN 61000-6-4 Class A<br>CE EN 55024 Class A<br>EN 61000-6-2 Class A<br>IEC61000-4-2 (ESD)<br>IEC61000-4-3 (RS)<br>IEC61000-4-4 (EFT)<br>IEC61000-4-5 (Surge)<br>IEC61000-4-6 (CS)<br>IEC61000-4-8 (Magnetic Field) |
| EMS                         |                                                                                                                                                                                                                                                                        |
| Free Fall Shock             | IEC60068-2-32<br>IEC60068-2-27                                                                                                                                                                                                                                         |
| Vibration                   | IEC60068-2-6                                                                                                                                                                                                                                                           |
| Green                       | RoHS Compliant                                                                                                                                                                                                                                                         |
| Certifications              | FCC, CE, UL 61010-1, UL 61010-2-201                                                                                                                                                                                                                                    |
| Warranty                    | 5 Years                                                                                                                                                                                                                                                                |

## ORDERING INFO

|                       |                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LNP-0800G-M12-67-24   | 8-Port Industrial M12 IP67 Waterproof Gigabit PoE+ Ethernet Switch, w/8*10/100/1000Tx with M12-connector, PoE Injector (30W/Port), 24-55VDC; STD: -10°~60°C |
| LNP-0800G-M12-67-24-T | 8-Port Industrial M12 IP67 Waterproof Gigabit PoE+ Ethernet Switch, w/8*10/100/1000Tx with M12-connector, PoE Injector (30W/Port), 24-55VDC; EOT: -40°~70°C |

### Optional Accessories

|                 |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|
| DR-75-12        | 75 Watts Series / 12 VDC / 6.3 Amps Industrial Single Output DIN Rail Power Supply   |
| DR-75-24        | 75 Watts Series / 24 VDC / 3.2 Amps Industrial Single Output DIN Rail Power Supply   |
| DR-120-12       | 120 Watts Series / 12 VDC / 10.0 Amps Industrial Single Output DIN Rail Power Supply |
| DR-120-24       | 120 Watts Series / 24 VDC / 5.0 Amps Industrial Single Output DIN Rail Power Supply  |
| CB-M12T4PF-1M   | M12 T-Code 4-Pin Female to Open Wire, 1 Meter, Wire: 16AWG, Power Cable              |
| CB-M12A5PM-1M   | M12 A-Code 5-Pin Male to Open Wire, 1 Meter, Wire: 22AWG, I/O Data Cable             |
| CB-M12X8PM-10CM | M12 X-Code 8-Pin Male to RJ45 Socket, 10 CM, Testing Cable                           |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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