



LNx-0800-M12-67 Series

**8-Port Industrial M12 IP67 Waterproof Unmanaged Ethernet Switch, with 8*10/100TX
M12 Connectors, 12~48VDC Power Input**



Hardware Manual

Version 1.1
(July 2025)



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FCC Warning

This equipment has been tested and found to comply with the limits for a Class-A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. It may cause harmful interference to radio communications if the equipment is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Avertissement FCC

Cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe A, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence. Cela peut provoquer des interférences nuisibles aux communications radio si l'équipement n'est pas installé et utilisé conformément aux instructions. Cependant, il n'y a aucune garantie qu'aucune interférence ne se produira dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en éteignant puis en rallumant l'équipement, l'utilisateur est encouragé à essayer de corriger les interférences par une ou plusieurs des mesures suivantes:

- Réorientez ou déplacez l'antenne de réception.
- Augmentez la distance entre l'équipement et le récepteur.
- Connectez l'équipement à une prise sur un circuit différent de celui auquel le récepteur est connecté.
- Consultez le revendeur ou un technicien radio / TV expérimenté pour obtenir de l'aide.

CE Mark Warning

This is a Class-A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Avertissement de marque CE

Ceci est un produit de classe A. Dans un environnement domestique, ce produit peut provoquer des interférences radio, auquel cas l'utilisateur peut être amené à prendre des mesures adéquates.

Industrial Ethernet Switches

Industrial Grade Unmanaged Ethernet Switches

Hardware Manual

Version 1.1 (July 2025)

The manual supports the following models:

- LNX-0800-M12-67
- LNX-0800-M12-67-T

Antaira Technologies - Industrial Ethernet Switches
LNX-0800-M12-67 Series - Hardware Manual - v1.1

This document is the current official release hardware manual. Please check our website (www.antaيرا.com) for any updated manual or contact us by e-mail (support@antaيرا.com).

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1 Overview

Antaira Technologies' LNX-0800-M12-67 Series is an 8-port unmanaged Ethernet switch, which provides 8*10/100BASE-TX Fast Ethernet M12 ports, which the M12 interface provides auto detection of MDI or MDI-X.

In order to prevent unregulated voltage, this switch provides high EFT and ESD protection. This also allows it to function in harsh environments, as well as support power redundancy with a dual power input design with reverse polarity protection.

Being able to operate under the standard temperature range from -10°C to 65°C or the extended temperature range from -40°C to 75°C, the LNX-0800-M12-67 Series is designed to meet any needs for industrial application and harsh environment.

1.1 Product Hardware Features

System Interface and Performance

- All M12 ports support Auto MDI/MDI-X Function
- M12 connector with IP67 rated protection
- Store-and-forward switching architecture

Power Input

- DC 12~48V redundant through M12 5-Pin A-Coded male connector
- Max. current 0.2A

Operating Temperature

- LNX-0800-M12-67: -10°C to 65°C
- LNX-0800-M12-67-T: -40°C to 75°C

Case / Installation

- IP67 protection plastic housing
- DIN-Rail and Wall-mount design
- Standalone installation
- Installation in a Pollution Degree 2 industrial environment

1.2 Package Contents

- LNX-0800-M12-67(-T)
- Quick Installation Guide
- DIN-Rail Kit with Screws

- 8*M12 Protective Caps
- 1*M12 Protective Cap for Power Input

1.3 Safety Precaution

Attention: If the DC voltage is supplied by an external circuit, please use a protection device on the power supply input. The industrial Ethernet switch's hardware specs, ports, cabling information, and wiring installation will be described within this hardware manual.

Attention: Si la tension CC est fournie par un circuit externe, veuillez utiliser un dispositif de protection sur l'entrée d'alimentation. Les spécifications matérielles, les ports, les informations de câblage et l'installation du câblage du commutateur Ethernet industriel seront décrits dans ce manuel d'utilisation.

Warning Labels

The caution label means that you should check certain information on the user manual when working with the device. (Shown in *Figure 1.1*)

Étiquettes d'avertissement

L'étiquette d'avertissement signifie que vous devez vérifier certaines informations du manuel d'utilisation lorsque vous travaillez avec l'appareil. (Illustré à la *figure 1.1*)



Figure 1.1 - Caution Label
Figure 1.1 - Étiquette de mise en garde



Figure 1.2 - Hot Surface Warning Label
Figure 1.2 - Étiquette d'avertissement de surface chaude

2 Hardware Description

2.1 Physical Dimensions

Figure 2.1, below, shows the physical dimensions of this product series:

(W x D x H) is 66mm x 27.5mm x 152mm

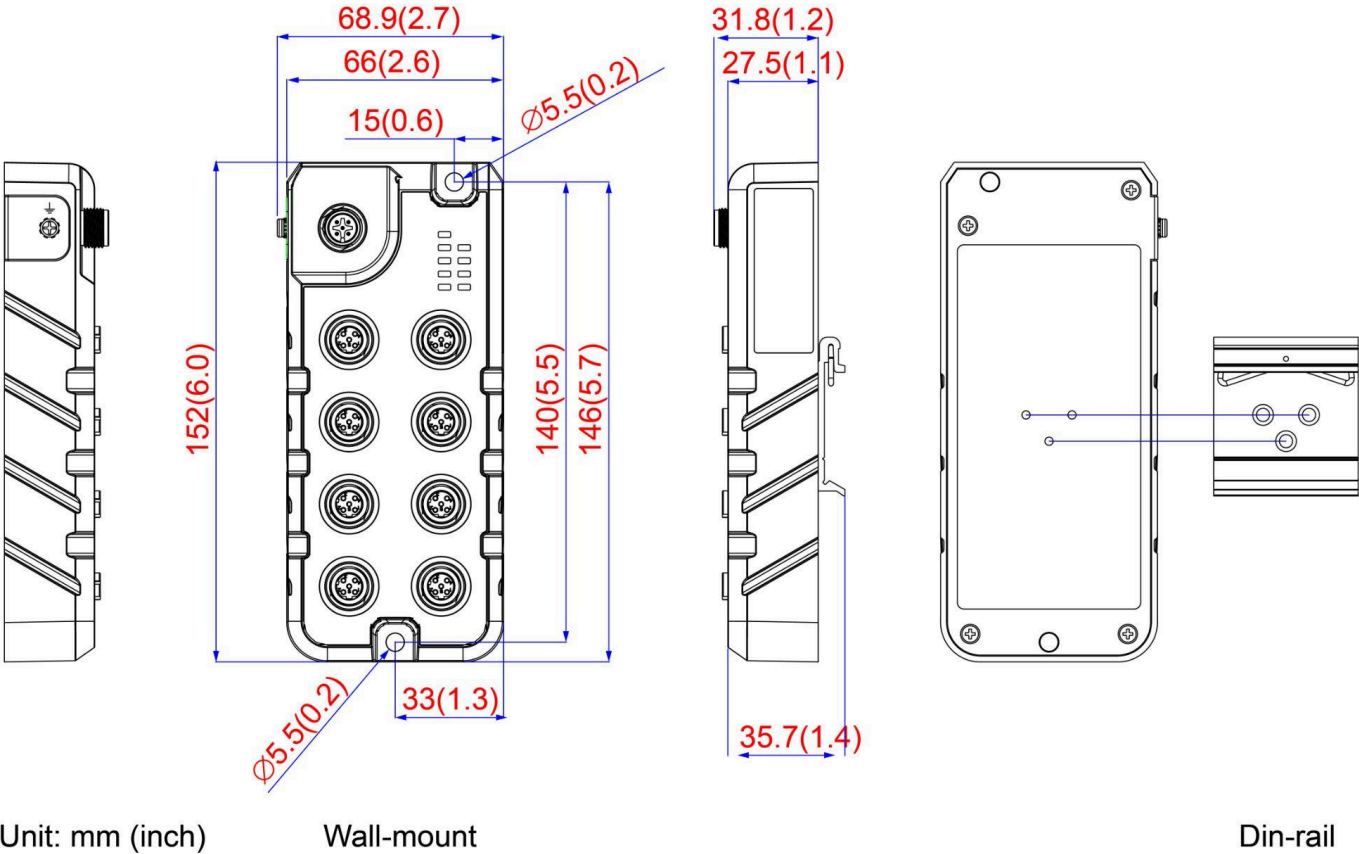


Figure 2.1 - Physical Dimensions

2.2 Front View Panel

Figure 2.2, below, shows the front panel of the product series:

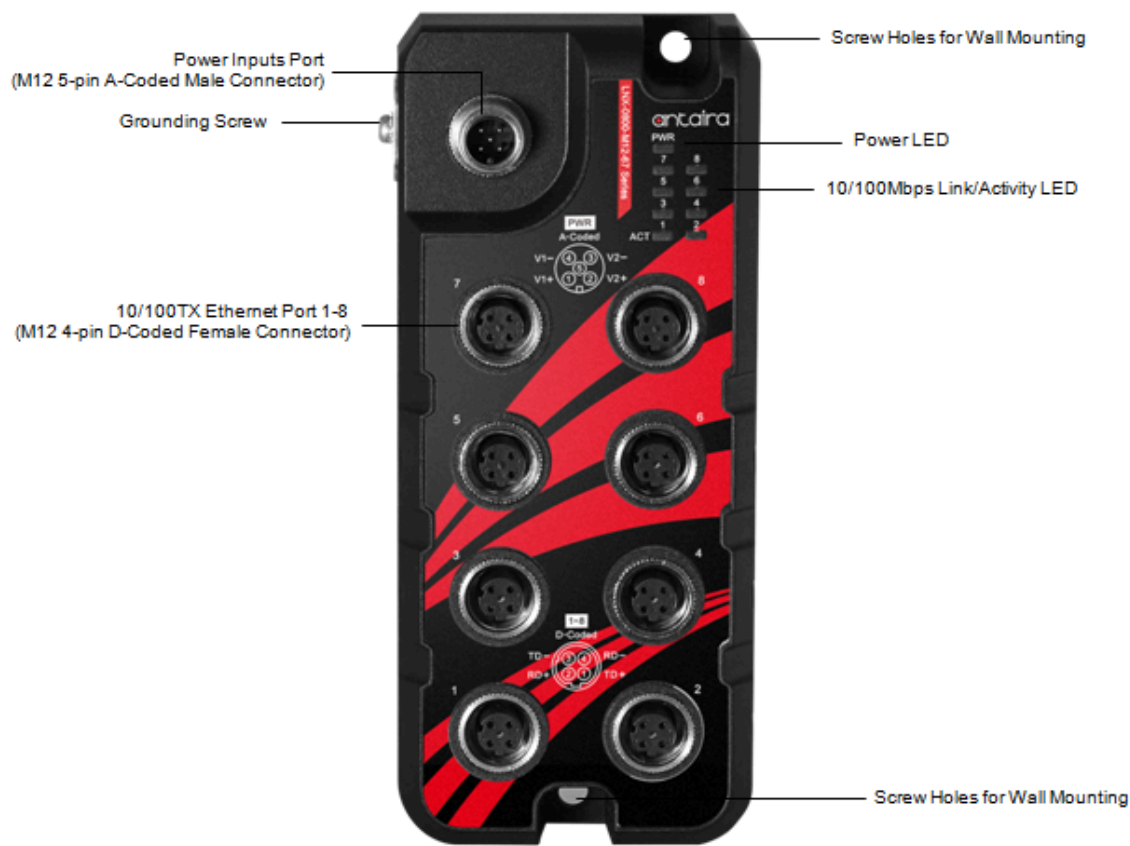


Figure 2.2 - Front View Panel

2.3 LED Indicators

There are LED light indicators located on the front panel of the industrial Ethernet switch that display the power status and network status. Each LED indicator has a different color and has its specific meaning, see below in *Table 2.1*.

LED	Color	Description	
PWR	Green	On	Power Input 1 or 2 is active
		Off	Power Input 1 and 2 both are inactive
Ethernet Port (1 to 8) Link/Activity	Green	On	Connected to network at 10/100 Mbps
		Flashing	Networking is active at 10/100 Mbps
		Off	Not connected to network

Table 2.1 - LED Indicators

2.4 Ethernet Ports

- **M12 Interface (Auto MDI/MDI-X)**
 - Connection Format: M12 4-Pin D-Coded Female Connector
 - Transmission rate: 10/100Mbps

Prepare the M12 4-Pin D-Coded Ethernet Port mating cable for Ethernet connection. The M12 D-Coded Ethernet ports are auto-sensing for 10BASE-T or 100BASE-TX devices connections. Auto MDI/MDI-X means that you can connect to another switch or workstation without changing straight-through or crossover cabling. See pin assignment shown in *Table 2.2*.

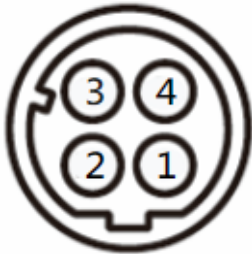
M12 4-Pin D-Coded Female Connector		
	Pinouts	10/100BASE-TX Signal
	1	Transmit Data + (TX+)
	2	Receive Data + (RX+)
	3	Transmit Data - (TX-)
	4	Receive Data - (RX-)

Table 2.2 - Ethernet port pinouts

Note: “+” and “-” signs represent the polarity of the wires that make up each wire pair.



Caution: Please use copper conductors only.

Attention: Veuillez utiliser uniquement des conducteurs en cuivre.



Caution: Use conductors with insulation rated for at least 60/75°C.

Attention: Utilisez des conducteurs dont l'isolation est d'au moins 60/75°C.



Caution: Base the conductor ampacity on a maximum termination temperature of 60/75°C.

Attention: Basez l'intensité du conducteur sur une température de terminaison maximale de 60/75°C.

2.5 Power Inputs

This industrial Ethernet switch provides dual DC power inputs for redundancy through the M12 5-pin A-Coded Male connector. Prepare the M12 5-pin A-Coded cable for power connection. *Table 2.3* shows the pin assignment.

M12 5-Pin A-Coded Male Power Connector			
	Pinouts	Function	Description
	1	V1+	Power Input 1 +
	2	V2+	Power Input 2 +
	3	V2-	Power Input 2 -
	4	V1-	Power Input 1 -
	5	GND	Grounding

Table 2.3 - Power input pinouts

Note: Recommended use of the wire gauge between 18~AWG.

Please follow the steps below to insert the power wire.

Step 1: Insert the positive and negative power wires into the power connector on the industrial Ethernet switch with pin 4, pin 1 (V+, V1-) for power 1, and pin 3, pin 2 (V2+, V2-) for power 2.

Step 2: Tighten the screw nut to prevent the connector from loosening.

2.6 Grounding Note

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting devices. The grounding screw symbol is shown below in *Figure 2.3*.

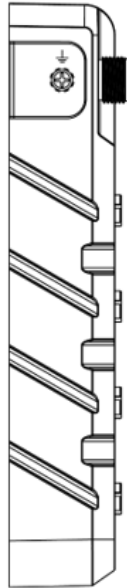


Figure 2.3 - Grounding Screw



Caution: Using a shielded cable achieves better electromagnetic compatibility.

Attention: L'utilisation d'un câble blindé permet une meilleure compatibilité électromagnétique

3 Mounting Installation

3.1 Wall Mounting

Follow the steps below to mount the industrial Ethernet switch to a wall using the screw holes as shown below in *Figure 3.1*.

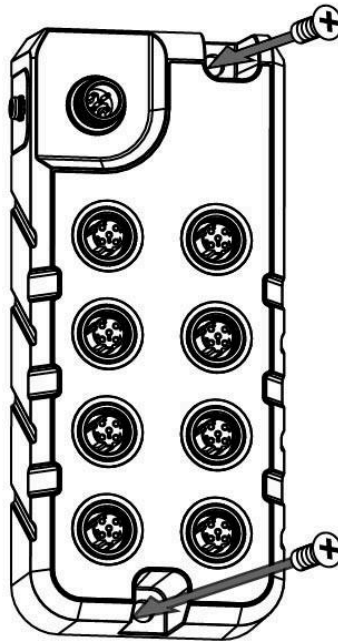


Figure 3.1 - The Rear Side of the Switch

Follow the steps below to learn how to hang the industrial Switch.

Step 1. Prepare 2 screws for mounting the switch to a wall.

Note: Recommended use of the M5 screws.

Step 2. Based on the *Figure 2.1: Physical Dimensions* which is shown the positions of 2 screw holes on the left and right side of the switch to make 2 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. Shown above in *Figure 3.1*.

Step 4. To remove the switch from the wall, do the opposite from the steps above.

Note: Make sure to disconnect all cables from the switch before removing the unit from the wall.

3.2 DIN-Rail Mounting

Follow the steps below to learn how to install the DIN-Rail on the industrial Ethernet switch and how to hang the switch.

Step 1. Use the screws to install the DIN-Rail bracket on the rear side of the industrial Ethernet switch as shown in *Figure 3.2*.

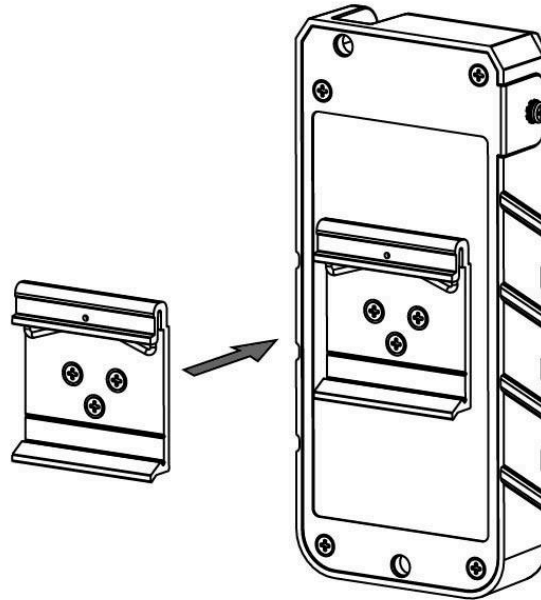


Figure 3.2: The Rear Side of the Switch and DIN-Rail Bracket

Note: To remove the DIN-Rail bracket, do the opposite from Step 1.

Step 2. After the DIN-Rail bracket is installed on the rear side of the switch, see Figure 3.3 to mount the switch.

1. Insert the top of the DIN-Rail onto the track.
2. Lightly pull down the bracket on the rail.
3. Check if the bracket is mounted tightly on the rail.

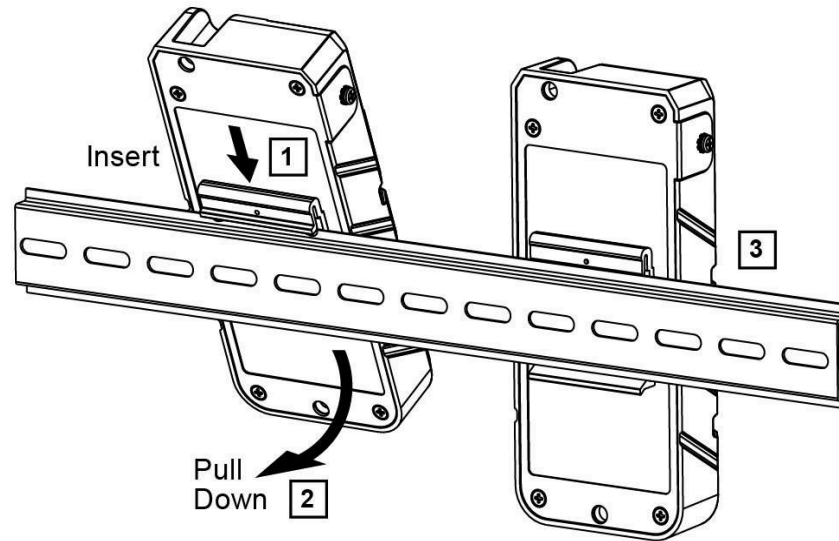


Figure 3.3 - Install the Ethernet switch on DIN-Rail

Step 3. To remove the industrial Ethernet switch from the rail, do the opposite from the above steps.

4 Hardware Installation

4.1 Installation Steps

This section will explain how to install the industrial Ethernet switch:



Caution: This device is intended for indoor use.



Attention: Cet appareil est destiné à une utilisation en intérieur.



Caution: The device is intended to be installed in an industrial control enclosure and panel.



Attention: L'appareil est destiné à être installé dans une armoire de commande et un panneau industriels.

Installation Steps

1. Unpack the industrial Ethernet switch from the original packing box.
2. To hang the industrial Ethernet switch on a wall, please refer to the Mounting Installation section.
3. Power on the industrial Ethernet switch and then the power LED light will turn on.
 - If you need help on how to wire power, please refer to the **Power Inputs** section.
 - Please refer to the **LED Indicators** section for LED light indication.
4. Prepare the M12 cable for Ethernet connection.
5. Insert one side of the M12 cable into the switch's Ethernet port and on the other side into the networking device's Ethernet port. The Ethernet port's (L/A) LED on the industrial Ethernet switch will turn on when the cable is connected to the networking device.
 - Please refer to the **LED Indicators** section for LED light indication.
6. When all connections are set and the LED lights all show normal, the installation is complete.

4.2 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 users 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.
- Clean the device with dry soft cloth.

4.3 Troubleshooting

- Always verify the right power cord or adapter is being used. Never use a power supply or adapter with a non-compliant DC output voltage or it will burn the equipment.
- Diagnosing LED Indicators: To assist in identifying problems, the switch can be easily monitored with the LED indicators which help to identify if any problems exist.
 - Please refer to the LED Indicators section for LED light indication.
- If the power indicator LED does not turn on when the power cord is plugged in, the user may have a problem with the power cord. Check for loose power connections, power losses or surges at the power outlet.
 - Please contact Antaira for technical support service if the problem still cannot be resolved.
- If the industrial switch LED indicators are normal and the connected cables are correct but the packets still cannot transmit, please check the system's Ethernet devices' configuration or status.

Antaira Customer Service and Support

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