



FNP-0500G-T

**5-Port Industrial Gigabit Unmanaged Flat-Type PoE+ Ethernet Switch,
w/4*10/100/1000Tx (30W/Port) + 1*10/100/1000Tx; EOT: -40°C to 75°C**



Hardware Manual

Version 1.0
(September 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.

Hardware Manual

Version 1.0 (September 2025)

The manual supports the following models:

- FNP-0500G-T

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

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1 Overview

This Industrial 5 port PoE switch is designed for IP surveillance, traffic monitoring and for a broad range of applications. The unique flat, light and small design is perfect for space-limited environments, such as a shallow cabinet or a small enclosure. It is equipped with 4 x 30W PSE ports, and can deliver up to 120Watts of power to your PD devices. It can be used as a stand-alone device for buses, trucks, and other vehicles for surveillance purposes. It has been rigorously tested for your security, transportation and telco applications.

1.1 Product Hardware Features

System Interface and Performance

- All RJ45 ports support Auto MDI/MDI-X Function
- Embedded 5*10/100/1000Tx RJ45 ports with 4*PoE+ (IEEE 802.3af/at) ports (PSE: 30W/Port)
- Store-and-forward switching architecture
- 2K MAC address table
- Power line EFT protection: 2,000VDC; Ethernet ESD protection: 6,000VDC

Product Input

- DC 48~56V redundant, with a 6-pin removal terminal block
- The power input specification is complied with the requirements of SELV (Safety Extra Low Voltage) and the power supply should be complied with UL 61010-1 & UL 61010-2-201

Operating Temperature

- FNP-0500G-T: -40°C to 75°C

Case / Installation

- IP30 protection metal housing
- DIN-Rail and wall mount design

1.2 Package Contents

- FNP-0500G-T
- Quick Installation Guide
- Wall mounting bracket set with screws
- DIN-Rail bracket

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.

C1D2 Installation and Operating Instructions

These devices are open-type devices that are to be installed in an enclosure only accessible with the use of a tool, suitable for the environment.

"This equipment is suitable for use in Class I, Division 2, Groups A, B, C, and D or non-hazardous locations only."

WARNING: EXPLOSION HAZARD - Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous."

WARNING: EXPLOSION HAZARD - Substitution of any components may impair suitability for Class I, Division 2."

Instructions d'installation et d'utilisation du C1D2

Ces appareils sont des appareils de type ouvert qui doivent être installés dans un boîtier accessible uniquement à l'aide d'un outil adapté à l'environnement.

«Cet équipement est conçu pour être utilisé uniquement dans les zones de classe I, division 2, groupes A, B, C et D ou non dangereuses.»

ATTENTION: RISQUE D'EXPLOSION - Ne débranchez pas l'équipement à moins que l'alimentation ait été coupée ou que la zone ne soit pas dangereuse. »

ATTENTION: RISQUE D'EXPLOSION - La substitution de tout composant peut nuire à la compatibilité avec la classe I, division 2.

Warning Labels

The caution label means that you should check the 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 sur le manuel d'utilisation lorsque vous travaillez avec l'appareil. (Montré dans la *figure 1.1*)



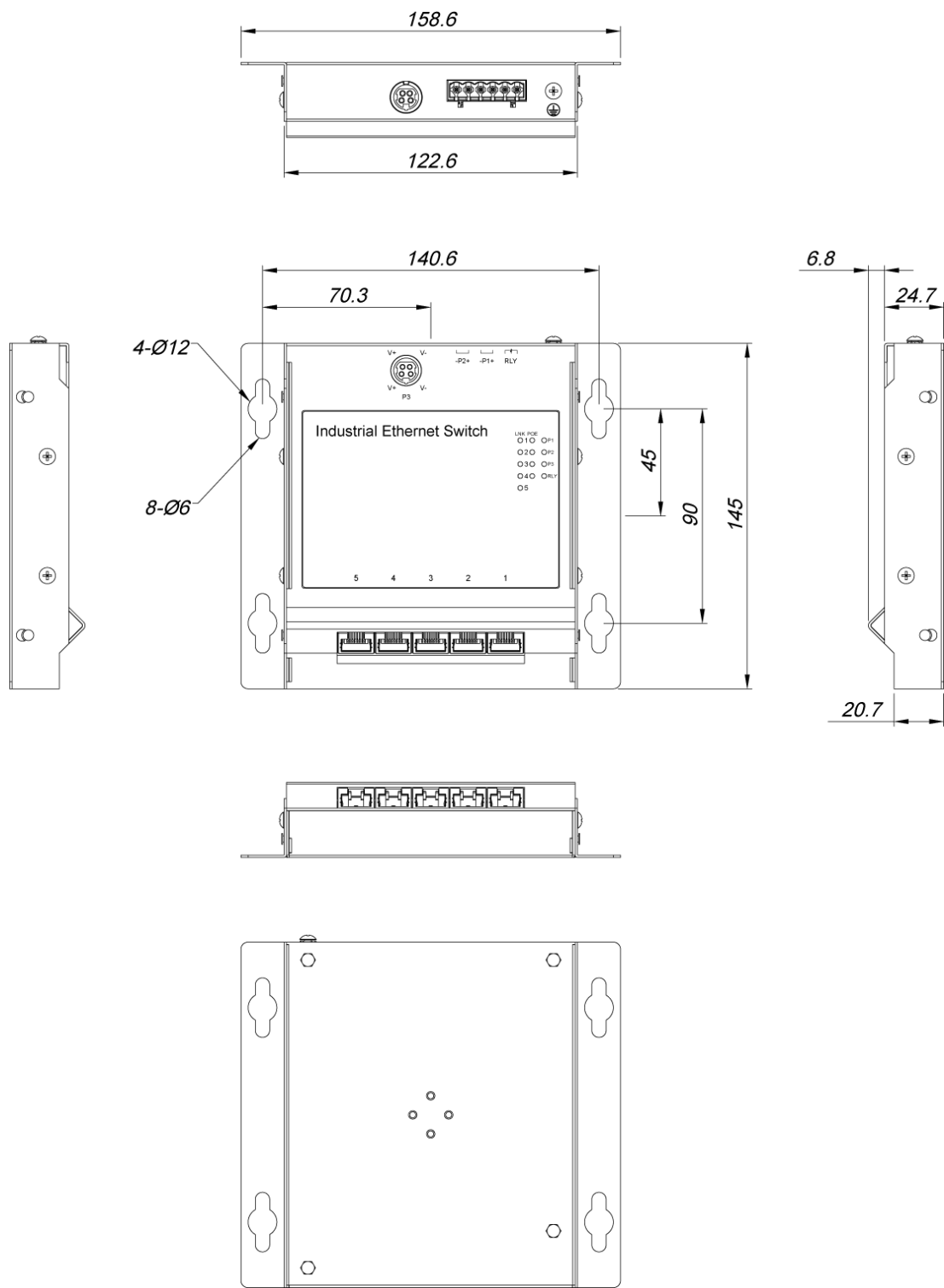
Figure 1.1 - Caution Label
Figure 1.1 - Étiquette de mise en garde



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

2 Hardware Description

2.1 Physical Dimensions



2.2 LED Indicators

LED	Color	Description	
PW1	Green	On	Power 1 is detected
PW2	Green	On	Power 2 is detected
PW3	Green	On	Power 3 is detected for Power
RLY	Amber	On	Connect only PW1 or PW2
		Off	Both PW1 and PW2 are connected
LNK	Green	On	Port is detected
		Flashing	Data is transmitting / receiving
PoE	Amber	On	PD is detected and PSE is activated
		Off	PD is not detected

2.3 Power Connection

This unit provides a 6-pin terminal block. PoE functions can be operated from 48-56VDC power input. Always make sure your input voltage is within this supported voltage range for each model.

[WARNING] Any exceeded input voltage will not make this unit function and may damage this unit.

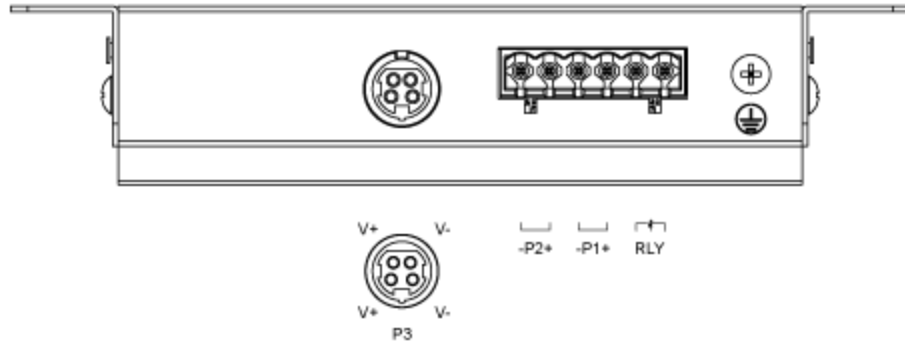
This unit comes with 3 power input sources. P1, P2, and P3.

To connect power: Follow the printed polarity for P1+, P1-, P2+, P2-, and ground. Connect positive wires to P1+ and/or P2+, connect negative wires to P1- and/or P2-, and connect a wire from the unit's chassis ground screw to the earth ground.

Power DIN: This unit contains an extra P3 port for power DIN. This power DIN can power the unit via external power adapter.

Relay: This unit includes an additional 24V@1A relay circuit for special purposes. When 2 powers are connected, the relay is in OPEN mode. If only one of the power sources is connected, the relay changes to SHORT mode. This relay will only work with P1 and P2. It is independent from P3.

Power Connecting Procedure:



Step 1. Pull out the 6-pin terminal block.

Step 2. Connect the wire to P1+, P1-, P2+, P2-, and a wire from the unit's chassis ground screw to the earth ground.

Step 3. Plug connected 6-pin terminal block back into place or connect the P3 power DIN from an external power adapter.

[WARNING]: Always SHUT OFF power source to connect power wire.

[WARNING]: Always ground the power source to maintain a clean power input. Cheaply made power supplies create too much noise and will cause the power input to fluctuate when connected to this unit. To avoid this, always ground the power source to maintain a clean power input.

3 Mounting Installation

3.1 DIN-Rail Mounting

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

Step 1. Prepare 3 Phillips Head screws for mounting the DIN-Rail to the switch.

Step 2. Position the DIN-Rail Bracket on the three holes on the back of the switch.

Step 3. Insert the screws through the screw holes on the DIN-Rail and screw the switch into the wall.

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

NOTE: Make sure all cables from the switch are disconnected before removing the unit from the wall.

3.2 Wall Mounting

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

Step 1. Prepare 4 screws for mounting the switch to a wall.

Step 2. Based on the positions of the 4 screw holes on the left and right side of the switch, 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.

NOTE: Make sure all cables from the switch are disconnected before removing the unit from the wall.

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