User Guide

NPI-HX1

95W PoE Injector

Package Contents

Check the following contents of your package:

- PoE Injector *1
- User Guide *1
- Power Cord *1
- Feet *4

If any part is lost and damaged, please contact your local agent immediately.

Introduction

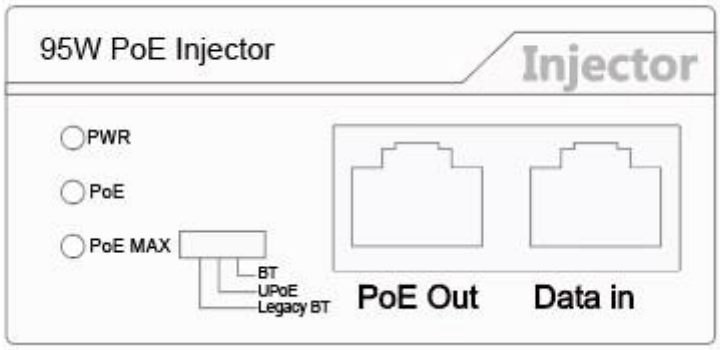
The device is a 95W single-port Gigabit PoE injector that delivers power over Ethernet using all four wire pairs. It is fully compliant with IEEE 802.3af/at/bt standards, enabling it to transmit power and data over a single Ethernet cable with a maximum distance of up to 100 meters. The injector automatically detects and identifies powered devices (PDs) that comply with IEEE 802.3af/at/bt standards and adjusts the output power accordingly.

For non-PoE terminal devices, the injector can be used in conjunction with a PoE splitter, allowing integration into existing network environments without additional power lines—effectively simplifying installation and reducing cabling costs.

Hardware Descriptions

Front Panel

The front panel consists of PSE output port, data uplink port and related indicators, as shown below:



Intelligent display of PoE power supply

When using the PoE power supply to connect the PD equipment, you should wait patiently for about 10S.

BT/UPOE/legs model

BT: Fully support IEEE 802.3BT/AT/AF standard PD device;

Legacy BT: Support non-IEEE 802.3BT/AT/AF standard PD devices;

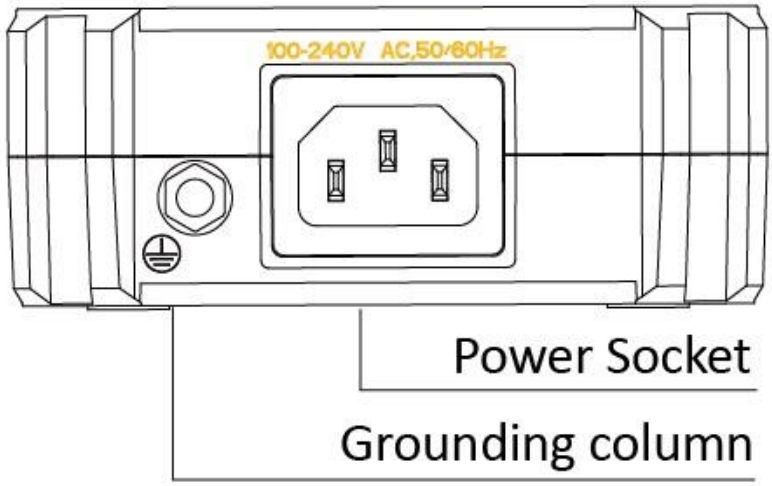
UPoE: Regardless of the class of PD, PSE provides maximum power to PD.

LED indicator

LED	Color	Function
PWR	Green	Off: No Power supply. Light: Indicates the machine has power.
PoE	Green	Off: No PoE powered device (PD) connected. Light: There is a PoE PD connected to be port, which Supply power successfully. Blink: Indicates port abnormal power supply.
PoE MAX	Green	When the output power reaches 80%, the PoE MAX indicator is green on

Rear Panel

The rear panel of AC inlet power socket and Grounding column.



Grounding column

The device is equipped with a built-in lightning protection mechanism. For enhanced safety and protection, it is recommended to ground the unit properly. This can be done either through the PE (Protective Earth) wire of the AC power cord or by connecting a dedicated ground cable to the grounding point on the device.

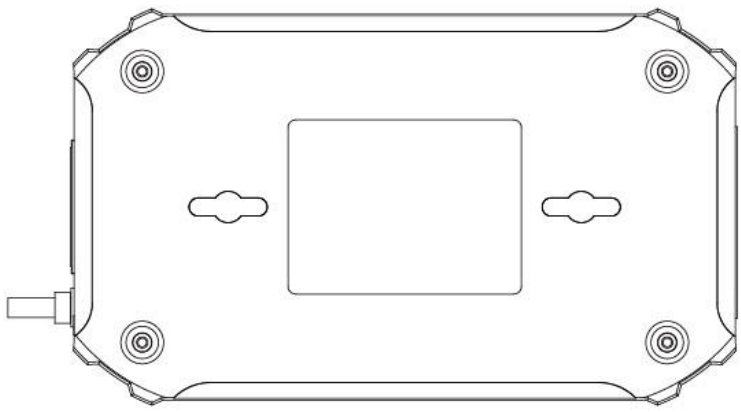
Installation

This section provides guidance on how to properly install and connect the device. Please follow the instructions carefully to avoid potential damage to the equipment or safety hazards.

- Power Safety: Always unplug the power cord before cleaning the device. Do not use wet cloth or liquids for cleaning.
- Moisture Protection: Do not place the device near water or in damp environments. Prevent any water or moisture from entering the chassis.
- Placement: Install the device on a stable surface. Placing it on an unstable table or shelf may cause the device to fall and become damaged.
- Ventilation: Ensure the installation area has proper airflow. Keep the ventilation openings on the device clear of obstructions.
- Power Requirements: Confirm that the operating voltage matches the specifications indicated on the device label.
- Electrical Safety: Do not open the chassis without proper authorization. To avoid the risk of electric shock, contact qualified service personnel if maintenance is required.

Desktop Installation

Carefully position the machine on the work table. (Check whether the machine is properly attached to the mat, so as not to slip).

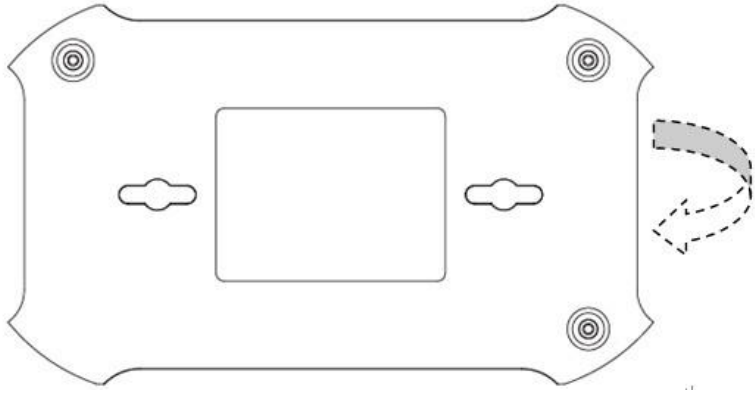


Wall-mounted installation

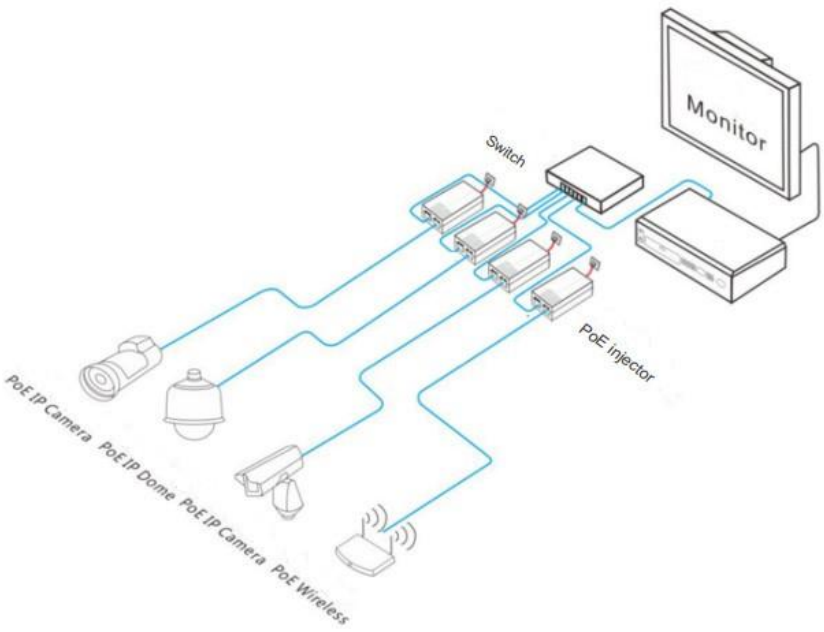
To install the device on a wall, please follow the steps below:

Insert two screws into the wall, spaced to match the distance between the two mounting holes on the back of the device. Leave a small gap between the wall and the screw heads to allow the device to slide into place.

Align the mounting holes on the back of the device with the screws and gently hang the device onto them, ensuring it is securely mounted and stable.



Application diagram of PoE injector:



Power on

The device operates using an AC power supply. Once powered on, the device will automatically initialize. The LED indicators will behave as follows: The Power LED will light up, indicating that the device is receiving power. The Data LED indicators will flash briefly for approximately one second. This indicates that the system is resetting and initializing.

After these steps, the device will be ready for normal operation.

Specifications

Model	NPI-HX1 95W PoE Injector
Port	Data in port:1 x 10/100/1000Mbps RJ45 port PoE out port : 1*10/100/1000Mbps RJ45 port
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3af, IEEE802.3at, IEEE802.3bt
Network Media(Cable)	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m) 1000BASE-T: UTP category 5e cable (≤100m)
Dimensions (L*W*H)	170*100*40mm
mains input	AC 100V-240V 50/60Hz 1.8A MAX
Function keys	Legacy Bt/Bt/UpoE
PoE power output	DC 54V Power 95W
PSE Power on RJ-45	4 Pair Data Pairs 1/2(-),3/6(+) Spare Pairs 4/5(+),7/8(-)
PoE Output	95W(Max)
Temperature	Operating Temperature: 0°C ~ 40 °C (32 °F ~104°F) Storage Temperature: -40 °C ~ 70 °C (-40 °F ~158°F)
Humidity	Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing