Hereta LNK-INJ302

Hereta LNK-INJ302 Industrial Gigabit PoE+ Injector User Manual

Model: LNK-INJ302 | Brand: Hereta

1. Introduction

This user manual provides detailed instructions for the installation, operation, and maintenance of the Hereta LNK-INJ302 Industrial Gigabit PoE+ Injector. This robust device is designed to provide both data and power over Ethernet cables to compatible PoE devices in demanding industrial environments.

Key features include:

- 2 RJ45 Ethernet Data Input Ports + 2 RJ45 Power Over Ethernet Output Ports (Data + Power).
- Support for full/half-duplex (10/100Mbps half/full duplex and 1000Mbps full duplex).
- Compliance with IEEE 802.3ab and IEEE 802.3at standards.
- Integrated power solution with a wide voltage range of 12~48VDC.
- Max 30W PoE per port, total POE power 60W.
- Extensive LED indicators for PoE diagnostics.
- Environmentally hardened operating temperature from -40°C to 80°C (-40°F to 176°F).
- Surge Protection: RJ45:1KV, ESD: 4KV/8KV.
- Durable hard aluminum alloy housing with DIN-Rail & Wall-mount installation clips.

2. Product Overview

The Hereta LNK-INJ302 is a compact and durable PoE+ injector designed for reliable performance in harsh conditions. Its robust construction and wide operating temperature range make it suitable for various industrial applications.



Figure 2.1: Hereta LNK-INJ302 Industrial Gigabit PoE+ Injector

The device features two sets of RJ45 ports for data input and PoE output, along with a terminal block for DC power input. LED indicators provide quick status updates for power and PoE activity.

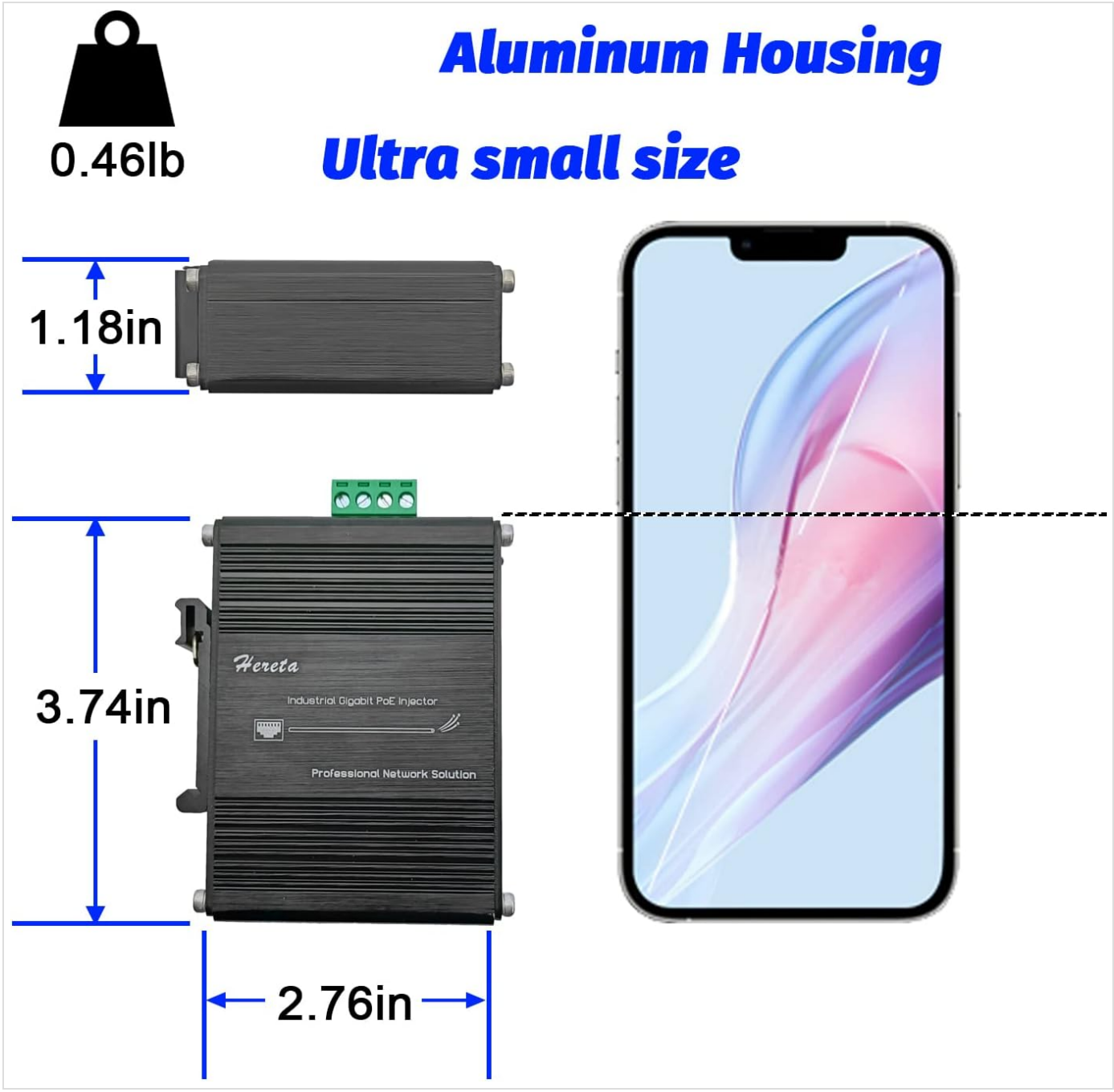


Figure 2.2: Compact dimensions of the LNK-INJ302, measuring approximately 3.74 x 2.76 x 1.18 inches and weighing 0.46 lbs.

3. Setup

3.1 Unboxing and Initial Inspection

Upon receiving your LNK-INJ302, carefully open the packaging and inspect the contents. Ensure all components are present and undamaged. The package should include the Gigabit PoE+ Injector, a user manual, and mounting accessories.

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Video 3.1: Unboxing and overview of the Hereta LNK-INJ302 Industrial Gigabit PoE+ Injector, showing its compact size and included accessories.

3.2 Power Connection

The LNK-INJ302 requires a 12~48VDC power input. Connect your DC power source to the green terminal block located on the top of the unit. Ensure correct polarity (V+ and V-). The device provides an integrated power solution for high

availability applications.

3.3 Network Connections

The injector features two sets of RJ45 ports:

- **DATA IN-1** / **DATA IN-2:** These are the Ethernet data input ports. Connect these ports to your network switch or router.
- **PoE OUT-1** / **PoE OUT-2:** These are the Power Over Ethernet output ports. Connect these ports to your IEEE 802.3af/at compliant PoE devices (e.g., IP cameras, wireless access points, VoIP phones). These ports will supply both data and power to the connected devices.



Figure 3.1: Connection diagram illustrating how to connect the PoE+ injector to a switch and various PoE-powered devices.

3.4 Installation

The LNK-INJ302 supports both DIN-Rail and wall-mount installations. Use the provided clips and hardware to secure the device in your desired location. Ensure adequate ventilation around the unit for optimal performance.



Figure 3.2: The LNK-INJ302 can be installed using either wall-mount brackets or by attaching it to a DIN rail.

4. Operating

Once properly connected, the LNK-INJ302 operates automatically. It will detect and provide power to connected PoE devices while passing through network data.

4.1 LED Indicators

The device is equipped with LED indicators for easy diagnostics:

- **PWR LED:** Indicates power status. Lit when the device is powered on.
- **PoE 1** / **PoE 2 LEDs:** Indicate PoE status for each output port. These LEDs will light up when a compatible PoE device is connected and receiving power.

4.2 Data Transfer and Power Output

The Ethernet ports support 10/100/1000Base-T speeds, ensuring high-speed data transfer. The PoE Out ports are compliant with IEEE 802.3at, providing up to 30W of power per port, with a total PoE power budget of 60W for both ports

combined.

5. Maintenance

The LNK-INJ302 is designed for minimal maintenance due to its hardened industrial design. However, regular checks can ensure long-term reliability.

- Keep the unit clean and free from dust and debris.
- Ensure all cable connections are secure.
- Verify that the operating temperature remains within the specified range of -40°C to 80°C (-40°F to 176°F).
- The device includes surge protection for RJ45 (1KV) and ESD (4KV/8KV), enhancing its durability against electrical disturbances.



Figure 5.1: The LNK-INJ302 is designed to operate reliably across a wide temperature range, from -40°C to 80°C.



Figure 5.2: The LNK-INJ302 features robust lightning protection to ensure stable operation in challenging environments.

6. Troubleshooting

If you encounter issues with your LNK-INJ302, refer to the following common troubleshooting steps:

- **No Power:** Check the DC power input connections and ensure the power source is providing 12-48VDC. Verify the PWR LED is lit.
- **No Link/Data:** Ensure the Ethernet cables are securely connected to both the DATA IN ports and your network switch/router. Check the status of the link/activity LEDs on your connected devices.
- **No PoE Output:** Verify that the connected device is IEEE 802.3af/at compliant. Check the PoE LEDs on the injector. If the device requires more than 30W, it may not be powered correctly. Ensure the total power consumption of connected devices does not exceed 60W.
- **Intermittent Connection:** Check for loose cable connections. Ensure the operating environment is within the specified temperature range.

For more detailed troubleshooting or complex issues, please refer to the official user manual PDF available at Hereta

LNK-INJ302 User Manual (PDF) or contact Hereta customer support.

7. Specifications

Feature	Specification
Model Number	LNK-INJ302
Switch Type	Unmanaged, Fixed
Number of Ports	2
Data Transfer Rate	1000 Megabytes Per Second (Gigabit)
PoE Standard	IEEE 802.3af/at
Max Power Per Port	30W
Total PoE Power	60W
Power Input	12~48VDC
Maximum Power Consumption	70 Watts
Operating Temperature	-40°C to 80°C (-40°F to 176°F)
Case Material	Aluminum
Product Dimensions	3.74 x 2.76 x 1.18 inches
Item Weight	7.4 ounces (0.46 Pounds)
Surge Protection	RJ45:1KV, ESD: 4KV/8KV
Included Components	PoE+ Injector

8. Warranty and Support

Hereta products are designed for reliability and performance. For detailed information regarding warranty coverage, terms, and conditions, please refer to the official documentation included with your product or visit the Hereta brand store.

For customer support, technical assistance, or to inquire about additional products, please visit the official Hereta store on Amazon: Hereta Store.

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