EDUP EP-SK0019

EDUP Starlink PoE Injector User Manual

Model: EP-SK0019 | Brand: EDUP

1. Product Overview

The EDUP 2-in-1 Starlink PoE Injector 150W is designed to streamline the power and network connection for your Starlink Standard Internet Kit satellite. This device integrates the functions of a PoE injector, a DC Step Up Converter, and a power supply into a single unit, simplifying installation and optimizing space.

It provides up to 150W of power for stable operation of the Starlink satellite and supports 10/100/1000M Gigabit Ethernet for rapid data transmission. With its plug-and-play design, it offers effortless network integration for various applications, including RVs, boats, and remote outdoor setups.

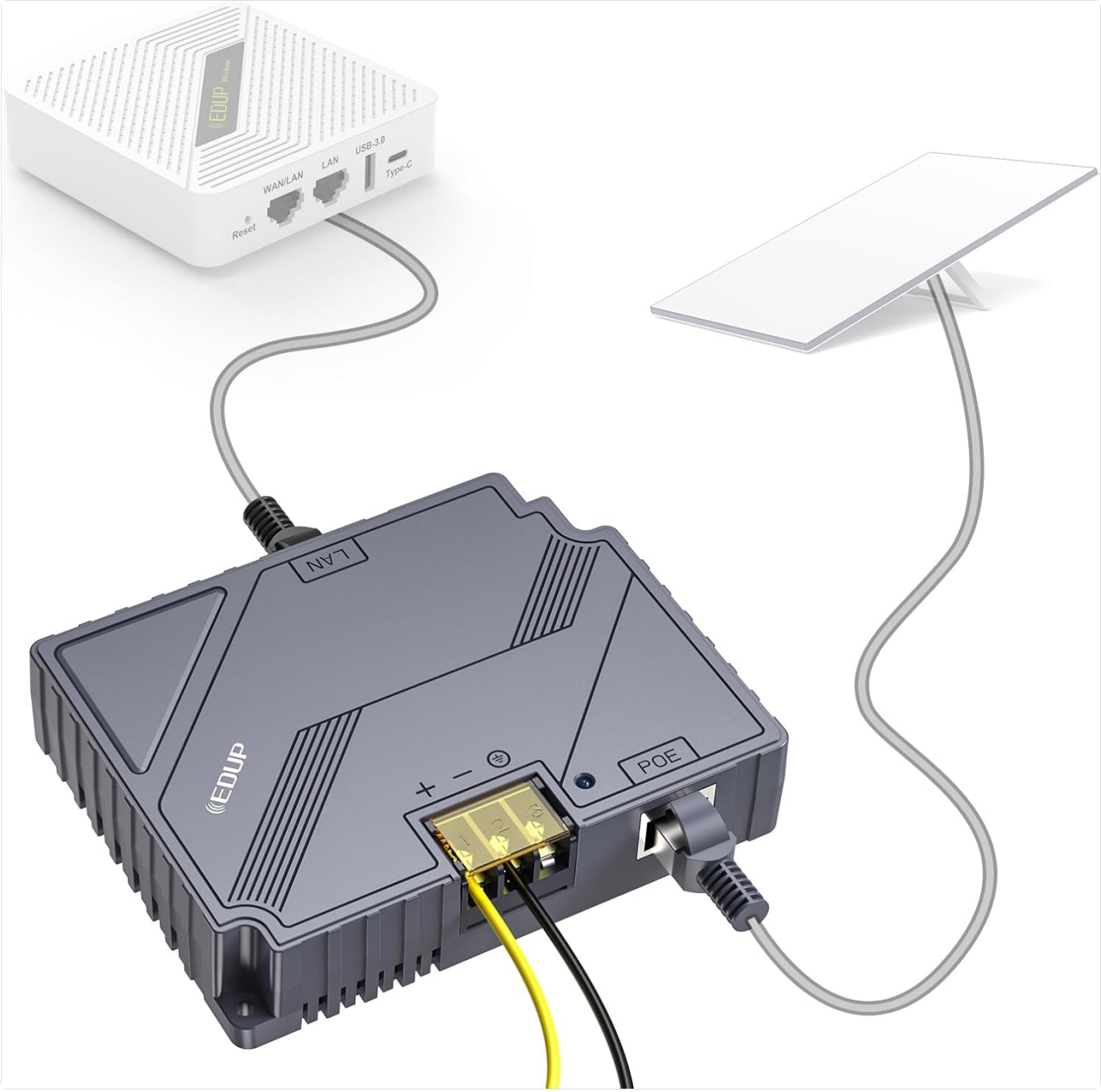

Image 1.1: The EDUP 2-in-1 Starlink PoE Injector connected in a typical setup, showing its compact design and integration with Starlink and a network router.

2. Key Features

- **150W 2-in-1 Step Up PoE Injector:** Combines PoE injection, DC step-up conversion, and power supply into one device for streamlined and space-saving installation.
- **150W GigE PoE Injector for Starlink Satellite Network:** Ensures stable power supply for Starlink Standard Internet Kit satellite and supports 10/100/1000M network speed with four pairs of Gigabit Ethernet for faster data transfer.
- **Flexible Connection & Efficient Power Management:** Suitable for connecting Starlink Gen3 Internet Kit satellite network to routers or desktops/laptops. Optimizes power distribution with a maximum input/output capacity of 3A.
- **Effortless Network Integration:** Features a plug-and-play design and a single LAN output for straightforward connection to a Gigabit router or PC, maintaining optimal network speeds.

- **Compatible Devices:** Specifically designed for Standard Starlink Device, featuring comprehensive protection systems.

3. Package Contents

Verify that all items are present in your package:

- 1 x EDUP 2-in-1 Step Up PoE Injector 150W for Standard Starlink Device

4. Specifications

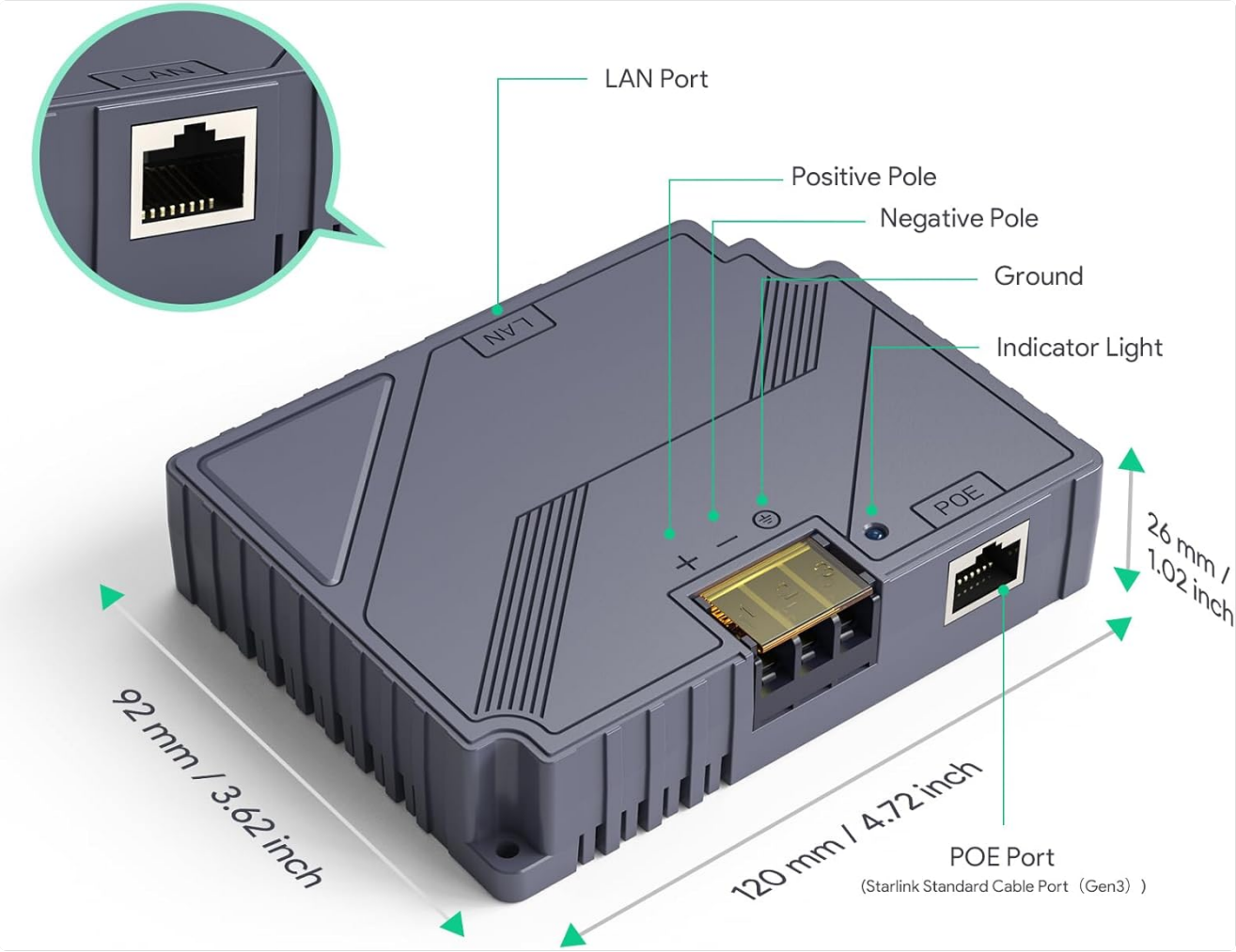

Image 4.1: Physical dimensions and port identification of the EDUP Starlink PoE Injector.

Product Specifications

Parameter	Value
Interface	LAN*1, POE*1, Power
Pin Configuration	+V: 1, 2, 3, 6; -V: 4, 5, 7, 8

Parameter	Value
Network Speed	10/100/1000Mbps (Gigabit Ethernet)
Input	DC 9~36V/15A
Output	DC 56V/3A Max
Protection	Surge: ± 8KV (Differential), Class A; ESD: ± 8KV (Contact), ± 15KV(Air), Class A
Operating Temperature	-20 ~ +55 °C
Operating Humidity	10% - 90% (Non-condensing)
Storage Temperature	-40 to +70 °C
Output Power	150W Max
Package Dimensions	5.43 x 3.9 x 1.65 inches
Item Weight	9.9 ounces
Item model number	EP-SK0019
Manufacturer	EDUP
Country of Origin	China
Hardware Interface	Ethernet
Color	Gray
Compatible Devices	Laptop, Desktop (with Starlink Standard Device)
Data Link Protocol	Ethernet
Data Transfer Rate	1000 Megabits Per Second

Parameter	Value
Interface	LAN*1, POE*1, Power
Pin Configuration	+V: 1, 2, 3, 6; -V: 4, 5, 7, 8
Network Speed	10/100/1000Mbps（Gigabit Ethernet）
Input	DC 9~36/15A
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Protection	Surge：± 8KV (Differential)，Class A
	ESD: ± 8KV (Contact)，± 15KV(Air)，Class A
Operating Temperature	-20 ~ +55 ℃
Operating Humidity	10% - 90% （Non-condensing）
Storage Temperature	-40 to +70 ℃
Output Power	150W Max

Image 4.2: Detailed technical parameters of the EDUP Starlink PoE Injector.

5. Compatibility

This EDUP PoE Injector is specifically designed for use with the **Standard Starlink Device (Gen 3)**. It is not compatible with other Starlink terminal models such as Standard Actuated, High Performance, or Flat High Performance.

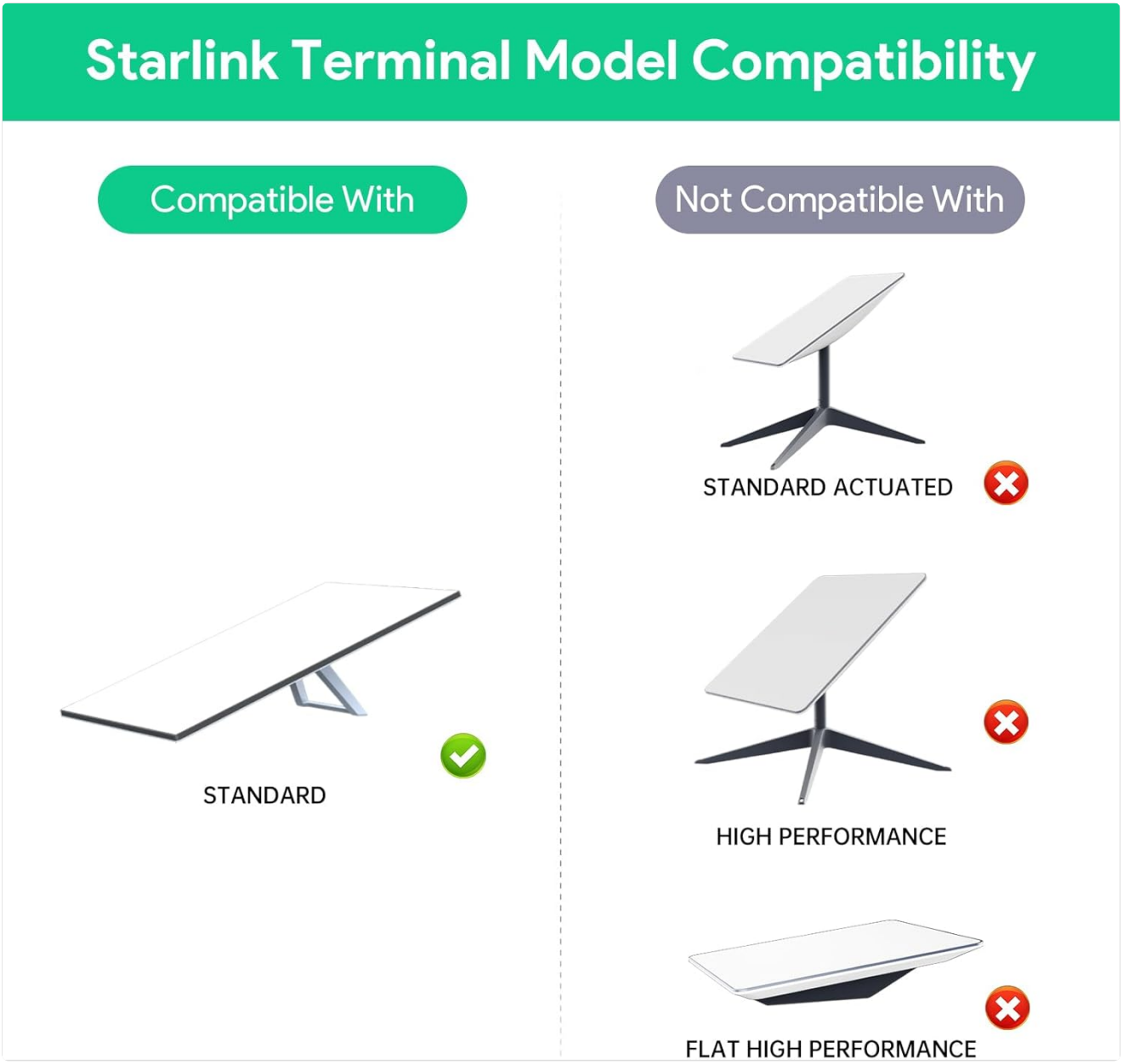

Image 5.1: Visual guide to compatible and incompatible Starlink terminal models.

6. Setup Guide

Follow these steps to set up your EDUP Starlink PoE Injector:

1. **Connect the Router:** Connect your Gigabit router or PC to the *LAN* port of the EDUP PoE Injector using a standard Ethernet cable.
2. **Connect the Starlink Dish:** Connect the original Starlink cable from your Starlink Standard Device (Gen 3) to the *POE* port on the EDUP PoE Injector.
3. **Connect Power:** Connect your DC 9-36V power supply to the power input terminals (+ and -) on the EDUP PoE Injector. Ensure correct polarity. The indicator light will turn on once power is supplied.
4. **Verify Connection:** Once all connections are made and power is supplied, the Starlink device should begin operating, providing internet access through your connected router or PC.

Image 6.1: Connection diagram for the EDUP Starlink PoE Injector.

Setup Demonstration Video

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Video 6.1: An official video demonstrating the setup process and functionality of the EDUP 2-in-1 Starlink Gen 3 GigE PoE Injector 150W.

CAUTION: Utilizing incorrect cables or PoE injectors may result in irreversible damage to equipment. Always ensure correct wiring and compatibility.

7. Operating Instructions

Once properly installed and powered, the EDUP Starlink PoE Injector operates automatically to provide power and data connectivity to your Starlink Standard Device. It is designed for continuous operation in various environments.

Typical Usage Scenarios:

Image 7.1: Ideal for RV installations, providing efficient power and network for mobile Starlink setups.

Image 7.2: Suitable for marine applications, enabling Starlink connectivity on boats and yachts.

Image 7.3: Perfect for remote outdoor settings, providing reliable internet where power access is limited.

The device is designed to operate within a wide DC input range (9-36V), making it versatile for various power sources commonly found in mobile or off-grid environments. The integrated indicator light provides a quick visual confirmation of power status.

8. Maintenance

The EDUP Starlink PoE Injector is designed for minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure adequate ventilation around the device to prevent overheating. Do not block the ventilation slots.
- **Cable Connections:** Periodically check all cable connections to ensure they are secure and free from damage.

- **Environmental Conditions:** Operate the device within the specified operating temperature and humidity ranges (-20 ~ +55 °C, 10% - 90% non-condensing) to prevent damage.

9. Troubleshooting

If you encounter issues with your EDUP Starlink PoE Injector, refer to the following common problems and solutions:

Troubleshooting Guide

Problem	Possible Cause / Solution
No Power Indicator Light	◦ Ensure the DC power supply is connected correctly to the + and - terminals and is within the 9-36V input range. ◦ Check the power source for functionality. ◦ Verify that the power cables are not damaged.
Starlink Dish Not Receiving Power/Data	◦ Confirm the original Starlink cable is securely connected to the *POE* port. ◦ Ensure the Starlink device is a Standard Starlink Device (Gen 3) as other models are not compatible. ◦ Check for any damage to the Starlink cable.
No Internet Connection via LAN Port	◦ Verify the Ethernet cable from your router/PC is securely connected to the *LAN* port. ◦ Ensure your router/PC is configured correctly to receive an internet connection. ◦ Note: This device provides power to the Starlink dish and passes data through the LAN port. It does not provide PoE out on the LAN port for other devices.
Device Feels Hot During Operation	◦ It is normal for the device to generate some heat during operation, especially under heavy load, due to the internal power conversion. ◦ Ensure there is adequate airflow around the unit and that ventilation slots are not obstructed. If overheating persists or the device becomes excessively hot to touch, disconnect power and contact support.

If the problem persists after attempting these solutions, please contact EDUP customer support for further assistance.

10. Warranty and Support

EDUP products are designed and manufactured to the highest quality standards. For information regarding warranty coverage and technical support, please refer to the warranty card included with your product or visit the official

EDUP store on Amazon:

Visit the EDUP Store on Amazon

For direct assistance, please have your model number (EP-SK0019) and purchase information ready when contacting support.