

5 Specifications

Item	Description
Ports	1 10/100/1000M RJ45 PoE IN Port (DATA + POWER IN) 1 10/100/1000M RJ45 PoE OUT Port (DATA + POWER OUT) 1 DC interface (DC OUT)
Network Media	10Mbps: Cat 3,4,5 Unshielded/Shielded Cable 100Mbps: Cat 5,5E Unshielded/Shielded Cable 1000Mbps: Cat 5E, 6, 7 Unshielded/Shielded Cable
Pass Through Data Rates	10/100/1000 Mbps
Power Output	Selectable: 5VDC/14A max 9VDC/7.8A max 12VDC/5.9A max 24VDC/3A max
Input Power Requirements	PoE Input Voltage: 44 to 57 VDC
Indicators	PoE Indicators / DC out Voltage Indicators
Connectors	Shielded RJ-45, EIA 568A and 568B
Dimensions	119 x 85.5 x 28mm
Environmental Conditions	Operating Ambient Temperature: -40 to 75°C Operating Humidity: Maximum 90%, Non-condensing Storage Temperature: -40 to 75°C Storage Humidity: Maximum 95%, Non-condensing
Regulatory Compliance	IEEE 802.3af (PoE) IEEE 802.3at (PoE) IEEE 802.3bt (PoE) IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) RoHS Compliant, CE, FCC
Electromagnetic	FCC Part15, Class B

1 Introduction

Power-over-Ethernet (PoE) eliminates the need to run DC power to other devices on a wired LAN. Using a Power-over-Ethernet system, installers need to run only a single Ethernet cable that carries both power and data to each device. This allows greater flexibility in the locating of network devices and, in many cases, significantly decreases installation costs.

There are two system components in PoE - the PSE (Power Sourcing Equipment) and the PD (Powered Device). The IEEE 802.3af/at/bt specification defines PSE as a device that inserts power onto an Ethernet cable. The PSE may be located at the switch (End-span configuration) or it may be a separate device located between the switch and the PD (Mid-span configuration). The PD is the natural termination of this link, receiving the power, and could be an IP phone, a WLAN access point, or any other IP device that requires power.

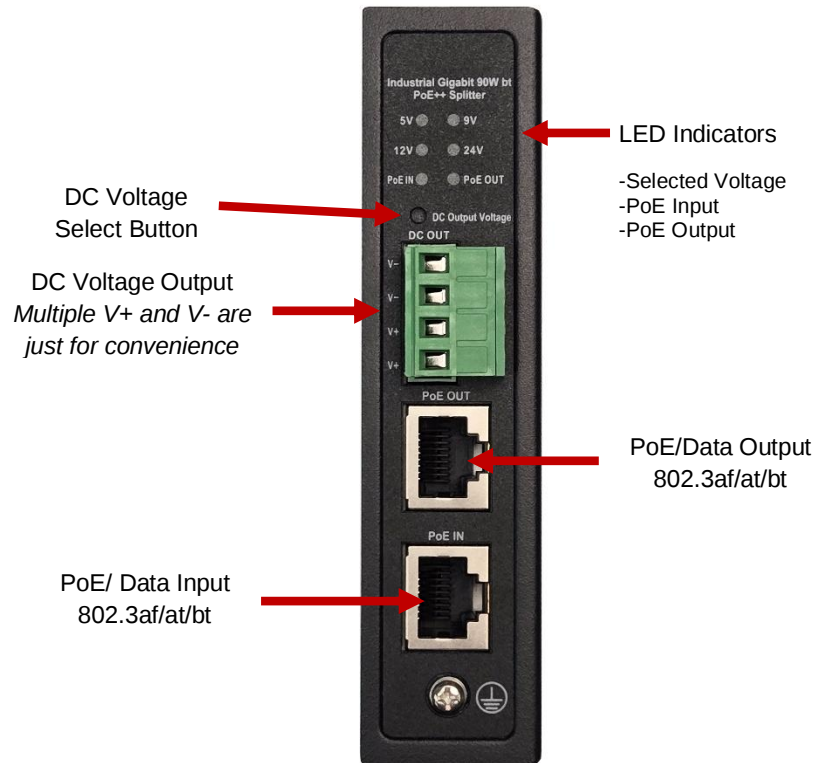
The **POE-SPLT-BT-UNI-P** is a PoE splitter. It accepts 48V PoE input via the Ethernet cable and then allows the user to select an output voltage of 5V, 9V, 12V, or 24VDC on the green wire terminal connector. Additionally, it features a PoE/Data output RJ45 connector to provide both PoE power and data to another device.

This PoE splitter is fully compatible with IEEE 802.3af/at/bt power classifications and supports PSE alternative A and alternative B connections. The maximum output power with an 802.3bt 90W input is 72W output. If your input power is 802.3at 30W, the max output is 24W. If your input power is 802.3af 15.4W, the max output is 12W.

2 Features

- Complies with IEEE802.3af,IEEE802.3at,IEEE802.3bt.
- Supports wide input voltage range from 44Vdc to 57Vdc.
- Supports PoE applications in Gigabit Ethernet environments.
- Auto-Sensing Algorithm compatible with IEEE802.3af, at or bt PSE.
- Splits the 48VDC PoE input to selectable DC Voltage output.
- Selectable output: 5VDC@14A or 9VDC@7.8A or 12VDC@5.9A or 24VDC@3A.
- High efficiency DC/DC converter.
- DC power output up to 72W with 802.3bt 90W input.
- Features IEEE 802.3af/at/bt PoE Output with Data Passthrough
- Over Temperature protection.
- Short circuit protection.
- LED indicators for power input and DC Output indication.
- Plug-and-Play.

3 Hardware Description

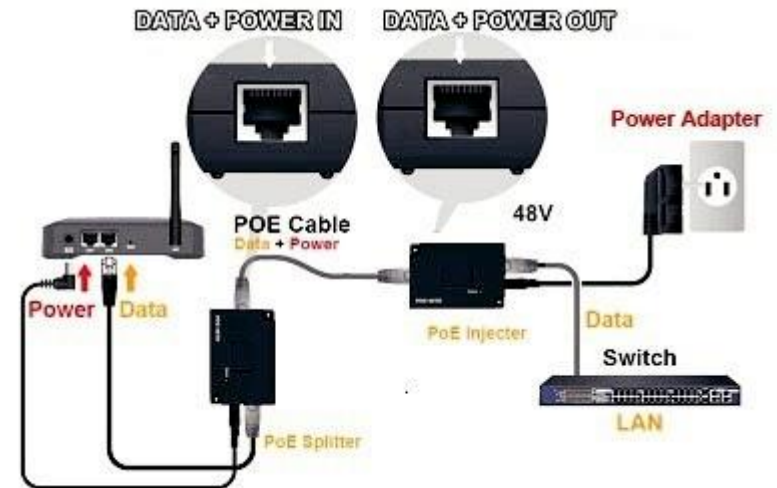


Notes:

1. **Warning:** Set voltage output selection before connecting your devices. An incorrect voltage can damage your devices.
2. **PoE In:** LED is steady green light when PoE power is stable.
3. **The maximum power output is 72W.** This includes DC Voltage output and PoE Output combined.

4 Application

Use the PoE Splitter with a PoE Switch or PoE Injector to expand your network to a location where there are no power lines or AC outlets, where you wish to install non-PoE network devices.



Steps:

1. Use a CAT5/6/7 UTP cable to connect the PoE Switch or PoE Injector to the **PoE IN** port.
2. Choose the appropriate DC voltage for your device by pressing the **DC Output Voltage** switch until the proper voltage LED is lit.
3. **WARNING:** Please make sure that the output voltage is correct for your device. An incorrect voltage may damage the device which you want to power up.
4. Connect the **POE OUT** port to the Ethernet port on your device with CAT5/6/7 UTP cable for data transmitting and 802.3af/at/bt PoE (optional)
5. Connect the **DC OUT** port to the power port of your device using appropriate wiring and matching connectors.