

Item #	Description	List Price
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RoHS Planet 151 Series PoE Injector and Splitters

The Planet POE-PT151 is an IEEE 802.3af Power over Ethernet Injector that provides DC 48V over Ethernet CAT5 cables. This provides power to 802.3af PoE capable devices. For non-PoE capable devices, the POE-PT151S splits the power and data from the CAT5 cable allowing these devices to operate within a PoE based network. The POE-PT151S ships with two power cables with 2.0mm and 2.5mm female power connectors.

POE-PT151	48 VDC, PoE Injector, Includes Power Supply	39.00
POE-PT151S	5V/12V, PoE Splitter, Includes Power Cables	29.00

RoHS Planet 12 and 24 Port PoE Injector Hubs

The Planet POE-PT1200 and POE-PT2400 are 12-port and 24-port IEEE 802.3af Power over Ethernet injector hubs that comply with IEEE 802.3, IEEE 802.3u and IEEE 802.3af standards. Equipped with 12 or 24 10/100BASE-TX Fast Ethernet ports, the products support full 48VDC power for any remote IEEE802.3af powered devices. These hubs feature Web and Console management interfaces to allow administrators easy management access. NOTE: CANNOT BE USED WITH CISCO PoE PRODUCTS.

POE-PT1200	48 VDC, 12 Port PoE Injector Hub	259.00
POE-PT2400	48 VDC, 24 Port PoE Injector Hub	399.00

Unicom PoE Injector and Splitters

The Unicom POE-32001T is an IEEE 802.3af Power over Ethernet Injector that provides DC 48V over Ethernet CAT5E cables. This provides power to 802.3af PoE capable devices. For non-PoE capable devices, the POE-22001T splits the power and data from the CAT5E cable allowing these devices to operate within a PoE based network. The POE-22001T features an adjustable output range, 5V, 7.5V, 9V and 12V. It also includes two detachable power cables.

POE-32001T	48 VDC, PoE Injector/Power Supply	55.24
POE-22001T	PoE Splitter, Includes Power Cables	25.01

Unicom 8 and 24 Port Managed PoE Switches

The Unicom SmartPoE multi-port switches can be used to build high-performance switched workgroup networks. These switches feature 8 or 24 auto-sensing 10/100Base-TX RJ-45 ports and all ports support the PoE injector function. In addition, these switches have two auto-detected Gigabit Combo ports for higher connection speed.

POE-63208T	48 VDC, 8 Port PoE Managed PoE Switch	506.56
POE-63226T	48 VDC, 24 Port PoE Managed PoE Switch	745.73



POE-PT151



POE-PT151S



POE-PT1200



POE-PT2400



POE-32001T



POE-22001T



POE-63208T



POE-63226T



What is Power-over-Ethernet (PoE)?

Power-over-Ethernet (PoE) or **“Active Ethernet”** eliminates the need to run 110/220 VAC power to Wireless Access Points and other devices on a wired LAN. Using Power-over-Ethernet system installers need to run only a single CAT5 Ethernet cable that carries both power and data to each device. This allows greater flexibility in the locating of AP's and network devices and significantly decreasing installation costs in many cases.

Power-over-Ethernet begins with a CAT5 **“Injector”** that inserts a DC Voltage onto the CAT5 cable. The Injector is typically installed in the “wiring closet” near the Ethernet switch or hub. Some Wireless Access Points and other network accept the injected DC power directly from the CAT5 cable through their RJ45 jack. These devices are considered to be “PoE-Compatible” or “Active Ethernet Compatible”.

Devices that are not “PoE Compatible” can be converted to Power-over-Ethernet by way of a **“PoE Splitter”**. These are sometimes called DC **“Picker”** or **“Tap”**. This device picks-off the DC Voltage that has been injected into the CAT5 cable by the Injector and makes it available to the equipment through the regular DC power jack.

Therefore in order to use Power-over-Ethernet you need:

(Injector) + (PoE compatible device)

- or -

(Injector) + (non-PoE compatible device) + (PoE Splitter)

Types of PoE Splitters

Two basic types of Pickers and Taps are available: **Passive** and **Regulated**.

A **Passive Tap** simply takes the voltage from the CAT5 cable and directs it to the equipment for direct connection. Therefore if 48 VDC is injected by the Injector then 48 VDC will be produced at the output of the Passive Tap.

A **Regulated Tap** takes the voltage on the CAT5 cable and converts it to another voltage. Several standard regulated voltages are available: 12VDC, 6 VDC, 5 VDC. This allows a wide variety of non-PoE equipment to be powered through the CAT5 cable.

Voltage and Pinout Standards

Although the IEEE has a PoE standard called IEEE 802.3af, different equipment vendors use different PoE voltages and CAT5 pin configurations to provide the DC power. Therefore it is important to select the appropriate PoE devices for each piece of equipment you plan to power through the CAT5 cable.

The IEEE has standardized on the use of 48 VDC as the Injected PoE voltage. The use of this higher voltage reduces the current flowing through the CAT5 cable and therefore increases the load and increases the CAT5 cable length limitations. Where the maximum cable length has not been a major consideration some vendors have chosen 24 VDC and even 12 VDC as their “injected” voltage.



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