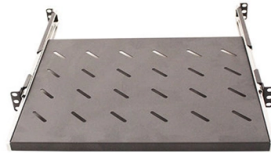


Convert 5620 switch to PoE



Webit Cabling

Overview

Service Bulletin: Power over Ethernet (PoE) Installation1. Overview The purpose of this document is to show how to install and wire the Power over Ethernet.

Key Takeaways

You can convert a non-PoE 5620 switch to support PoE by using PoE injectors or midspan devices, which supply power over Ethernet without replacing the switch.Methods to Add PoE

1. PoE Injectors (Single-Port or Multi-Port) A PoE injector is a device that adds electrical power to an Ethernet cable while passing data from your switch to the powered device (PD), such as an IP camera or wireless access point . To use a PoE injector:

- Connect the switch port to the injector's Data In port.
- Connect the injector's PoE Out port to the PD.
- Plug the injector into a local AC power source. This method is ideal for adding PoE to a few devices without replacing the entire switch. 2. PoE Midspan or Inline Converters For multiple devices, a PoE midspan device can inject power into all Ethernet lines coming from a non-PoE switch. These devices often support IEEE 802.3af/at/bt standards and can handle higher power requirements for devices like PTZ cameras or access points . Key considerations include:
- Ensure the midspan supports the power class of your devices.

- Verify cable quality (Cat5e or higher) to maintain data integrity.
- Check voltage compatibility if using legacy 24V devices; modern switches typically output 48V PoE, so a step-down converter may be required . 3. Upgrading to a PoE Switch If you plan to power many devices or want centralized management, replacing the 5620 with a PoE-enabled switch (PoE, PoE+, or PoE++ depending on wattage needs) is the most scalable solution . This eliminates the need for multiple injectors and simplifies power budgeting.

Practical Considerations

- Power Budgeting: Calculate the total wattage of all PDs and ensure the injector or midspan can supply sufficient power, adding 25–30% overhead for cable loss .
- Cable Quality: Use Cat5e or higher to support both data and power over distances up to 100 meters.
- Device Safety: Avoid connecting passive 24V devices directly to 48V PoE switches; use a compatible converter to prevent damage .
- Management: PoE injectors and midspans may not support remote power cycling; for full control, a PoE switch is preferable. By using PoE injectors or midspan devices, you can upgrade your 5620 switch to support PoE without replacing it, providing power and data over a single Ethernet cable to your network devices efficiently and safely.

Article Content

Service Bulletin: Power over Ethernet (PoE) Installation

1. Overview The purpose of this document is to show how to install and wire the Power over Ethernet (PoE) to the Pivot 5G 5620

How Can I Make My Ethernet Switch To Poe Switch

All you need is IP cameras, PoE adapters (depending on the number of powered IP cameras), standard network switch and Cat5e,

Amazon : Poe Adapter

Gigabit PoE Injector 48V Power Over Ethernet Supply Adapter 10/100/1000Mbps IEEE 802.3at/af RJ45 Compliant for Camera IP

Converting Your Favorite At-Home Devices Into PoE

Once your POE switch or injector is setup, run a cat5e cable from one POE port into the input RJ45 connection of the GAT-USBC

Contact Us

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

