

Article Overview

Huijue PoE switches can transmit both data and power over Ethernet cables, allowing simple and safe connections to devices like IP cameras, access points, and routers.

Understanding the PoE Switch

A Huijue PoE switch functions as a Power Sourcing Equipment (PSE), supplying both data and DC power to connected devices (Powered Devices, PDs) over standard Ethernet cables. Most Huijue switches support IEEE 802.3af/at standards, delivering up to 30W per port, with total power limits depending on the model (e.g., 110W or 250W) . Ports are typically numbered, and power may be prioritized if total demand exceeds the switch's capacity .

Required Materials

- o Huijue PoE switch
- o Ethernet cables (Cat5e or higher recommended)
- o Powered devices (IP cameras, APs, VoIP phones)
- o Router or NVR for network integration
- o Power adapter supplied with the switch

Wiring Steps

- o Placement and Power Preparation Place the switch on a stable, ventilated surface. Ensure the power adapter matches the switch specifications. Always disconnect power before connecting cables .
- o Connecting Devices
 - o Use Ethernet cables to connect PDs to the PoE ports (usually ports 1-8). The switch will automatically detect PoE-compliant devices and supply the required power .
 - o Connect the switch to a router or NVR using a standard Ethernet port (non-PoE uplink port) to provide network access .
- o Cable and Pinout Considerations
 - o PoE can deliver power over either the data pairs (Alternative A) or spare pairs (Alternative B) of a twisted-pair cable .
 - o Standard Ethernet pinout for PoE follows IEEE 802.3af/at, with 44-57V DC supplied safely over Cat5e or higher cables .
- o Power-On and Testing
 - o Plug in the power adapter and switch on the device.
 - o Verify that connected PDs are receiving power and network connectivity. LEDs on the switch typically



Huijue Switch PoE Wiring Sequence

indicate active PoE connections .

- o For multiple switches, connect uplink ports between switches and ensure proper network topology to avoid loops .

Best Practices

- o Avoid placing heavy objects on the switch and ensure proper ventilation .
- o Confirm that all PDs comply with IEEE 802.3af/at to prevent overloading the switch .
- o Use high-quality Ethernet cables to maintain both data integrity and power delivery.
- o Plan port usage and power allocation if multiple high-power devices are connected simultaneously. By following these steps, a Huijue PoE switch can be safely and efficiently wired to provide both network connectivity and power to multiple devices in a small to medium-sized network environment.

This manual is applicable to NS-0105P and NS-0109P series 100M long-range PoE switch. Symbol Conventions The symbols that

Steps Go to Switch Configuration -> Basic Configuration -> Port Configuration -> Attribute Configuraion .
Figure 4-1 Port Attribute

PoE makes installation very easy By Bob Mesnik This article has been updated on 10/4/2018 to reflect the new PoE

Comparison of Fluke Networks tests for PoE devices and cabling. Make your PoE projects run smoothly by selecting the right

Discover a complete guide on the "wiring diagram how to connect PoE switch to NVR". Learn its benefits, setup

This is ideal for testing live PoE networks where PoE-enabled switches allocate power to each port based on the requirements of its

To summarize, Poe switch wiring diagrams are an essential part of any network installation. They provide a

First, connect the main PoE switch to a router or a network switch using an Ethernet cable. Second, connect the other

Unboxing and Tutorial of PoE IP System 1. Topology When build an IP system via PoE Connection, you will need PoE NVR and PoE



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However, this PoE Powered Switch also supports the latest IEEE802.3bt standard which employs all 4 pairs Ethernet

Power Over Ethernet (POE) allows you to power remote devices like IP cameras, Wireless access points over the

Understand what is PoE pinout with this comprehensive guide. Learn about Mode A/B,

The HP ProCurve PoE switch devices are multiport switches that can be used to build high-performance switched workgroup

Diagram for Wiring a Poe Switch Learn how to wire a Poe switch with a comprehensive diagram, helping you set up Power over

Learn PoE pinout wiring standards for Ethernet networks, including T568A, T568B, PoE pin configurations, cable

PoE (Power over Ethernet) cameras simplify security installations by delivering both power and data through a single

Web: <https://www.millstraining.co.za>

