

Noise from high-power PoE switches



Overview

Fanless PoE switches feature a 0db noise value while PoE switches with fans are more or less noisy. We have implemented the TIDA-050045 reference design nearly as-is with minor changes. We are getting larger than expected voltage spikes on the rising and falling edges at the. This is NOT the case with power that is run via the same (Ethernet) cable. Typically, this power is sourced by a switching power supply - too often one that is not filtered well - and worse, the device at the far end of the cable (e. a camera or WiFi access point - to name two examples) is often. Just in case anyone else contemplates doing this, I swapped my RS&Boom to being powered by the PoE adapter shown below, since it was connected to a PoE-capable network switch, just to neaten the cabling. It worked nicely, except that the PoE device seems to emit interference that was being picked. This is a place to discuss all things Ubiquiti, especially UniFi. Then I returned it and got a. Due to the power and data transfer benefits of PoE switches, they have gained increasing attention as a popular solution for enterprises looking to provide power and data to their devices over a single connection. As the switch will be in the office, one of possible choices would be: But above is not manageable via Instant On feature, which is customer's requirement.



Article Content

Aug 09, 2025

Silent PoE Switches

Sound abatement can be done through a variety of methods - a series of baffles in the air intakes and outlets can cut sound substantially (like a car's muffler), while low-speed fans can move

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PoE Troubleshooting: Common Problems and Solutions

The PoE powered switch can receive power and data from an upstream PSE (PoE switch or PoE injector) and deliver them to connected PDs. It

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PoE Switch Reliability Improvement Checklist: Best

Ensure your network runs smoothly with PoE switch solutions from Omnitron Systems. Our reliable, high-performance PoE switches deliver consistent power

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Noise from PoE (power-over-ethernet) adapter

Just in case anyone else contemplates doing this, I swapped my RS& Boom to being powered by the PoE adapter shown below, since it was

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HPE Aruba switch loudness

If you're buying just one switch, you can assume one model is louder than the other but neither reaches the level of 85 dBA where you'd need hearing protection.

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UPoE vs PoE+: A Guide to Power Over Ethernet Standards

We break down the real differences in the UPoE vs PoE+ debate, including 802.3at vs 802.3bt, cabling, and what your high-power devices actually

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USW-24-PoE high pitched noise : r/Ubiquiti

My new USW-24-PoE switch arrived direct from ubiquiti last week. As soon as I plugged it in I hear a high pitched noise or whine from the switch. If I plug a device into an Ethernet port the noise goes

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FS Fanless PoE Switch: Silent Operation for Network

Experience the benefits of FS fanless PoE switches that enhance network performance with silent, energy-efficient operation. Ideal for tranquil

Nov 30, 2025

Overview of IEEE 802.3bt PoE Standard and Hi-PoE

Explore the IEEE 802.3bt High Power PoE (Hi-PoE) standard, designed to support high power delivery. Gain insights into the evolution of PoE over the years in this

Nov 20, 2025

Reducing RFI (Radio Frequency Interference) for a POE

For HF this was quite simple: I simply tuned my HF receiver - connected to my main antenna - to a frequency where I knew that I could hear

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10 Best POE Switch - Reviews & Buying Guide

Discover the top POE switches with expert reviews and a comprehensive buying guide. Make informed decisions for your network

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Industrial Ethernet Switches

Provides an overview of deploying PoE in an industrial environment, exploring how this sector can benefit from PoE technology and describing the

Jul 04, 2025

PoE Power: Slow Your Network? Debunking 3 Big Myths!

PoE technology is popular in networks because it offers "one-wire, two-pronged" convenience. However, many users worry: Does using PoE slow

Jul 31, 2025

Understanding PoE Switches: Speed, Power

This article addresses 6 essential facts about PoE switches: speed, power, and compatibility. It explores IEEE standards and applications to help you

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How to Eliminate Noise from Switching Power Supply?

Learn how to reduce switching power supply noise with effective tips on circuit design, filtering, and EMC strategies to improve device performance and reliability.

Apr 27, 2026

PoE vs. PoE+ vs. PoE++: What's the Difference?

Learn key differences between PoE vs PoE+ vs PoE++. Compare power output, device compatibility, and use cases to find the best PoE switch for

Apr 18, 2026

Is PoE Safe? Complete Guide to Power over Ethernet

Wondering if PoE is safe? This complete guide covers Power over Ethernet safety, standards, voltage levels, and best practices for secure

Oct 03, 2025

Challenges and solutions for PoE systems in Ethernet switches

Controlling power-sourcing equipment (PSE) in an Ethernet switch is complicated, however, given the limited capability from the power supply and the multiple power supplies that exist for redundancy in

Jun 24, 2026

Which Ethernet switch causes the least HF noise?

I have a UAC-HD that's pretty noisy, too, and what ultimately "solved" it (i.e. got it below my local noise floor) was a third party PoE injector and a whole hell of a lot of ferrites on the Ethernet cable at the

Mar 23, 2026

TPS23730: Need to suppress noise spikes from PoE

We are getting larger than expected voltage spikes on the rising and falling edges at the switching frequency. Can you provide some suggestions of

Jun 15, 2026

Fanless PoE Switch vs PoE Switch with Fans, What's

Another key benefit of the fanless switch is noise-free since there are no vibrations from fans. Therefore fanless PoE switches are widely deployed to

Feb 13, 2026

Switching Noise in Power Electronics: Origins and Spectrum Analysis

Switching noise in power electronics primarily stems from the rapid switching actions of semiconductor devices. These devices, such as MOSFETs and IGBTs, switch current on and off at

Jul 30, 2025

USW-24-POE Gen2

I originally purchased an USW-24-POE Gen 2 switch, and discovered that it made a high pitch noise (audible within the same room, switch not in a cabinet) depending on the amount of POE devices

Jun 11, 2026

Power Supplies Deliver Isolation, Low Noise To PoE

IEEE802.3af Power-over-Ethernet (PoE) applications distribute a 48-V dc bus over CAT5 unshielded twisted-pair cabling to power voice-over-IP phones, WLAN access points, and other applications ...

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://piano-lessons.co.za>

Email: info@piano-lessons.co.za

Phone: +31 6 37258914

Address: Herengracht 123, 1015 BT Amsterdam, Netherlands

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