

Long-distance PoE Switch



Overview

Long Range PoE+ Switches Each Long Range PoE+ Switch feature a DIP switch to extend the PoE+ signal at up to 10Mbps. These switches are ideal for use with.

Key Takeaways

Long-distance PoE switches extend both power and data transmission beyond standard Ethernet limits, reaching up to 200-500 meters depending on the model and configuration. Overview Long-distance PoE switches are specialized networking devices designed to transmit power and data over extended distances, far beyond the typical 100-meter Ethernet limitation. They are ideal for deploying devices such as IP cameras, wireless access points, and VoIP phones in locations where standard PoE cannot reach.

These switches maintain data integrity and consistent power delivery even at extended ranges, making them suitable for modern network infrastructures.

Key Features

Extended Range: Many long-range PoE switches can extend PoE signals up to 200 meters (656 ft.) at reduced speeds (typically 10 Mbps) using a DIP switch to select “Extend” mode. Some setups, using cascaded switches or PoE extenders, can reach 500 meters. **Power Delivery:** Supports both PoE and PoE+ devices, with power budgets typically ranging from 30W per port to 65W total, depending on the model.

Port Flexibility: DIP switches allow selective extension of certain ports while maintaining full-speed Gigabit connectivity on others, optimizing network performance. **Management Features:** Many switches include QoS, VLAN port isolation, loop protection, and short-circuit protection, ensuring reliable and secure network operation. **Installation Options:** Can be desktop or wall-mounted, and some models support PoE passthrough, eliminating the need for additional power adapters in hard-to-access locations.

Practical Applications

Surveillance Systems: Deploy IP cameras in large facilities, campuses, or industrial sites without needing local power outlets. **Wireless Networks:** Extend access points to remote areas such as warehouses, tunnels, or outdoor spaces. **Industrial Environments:** Reduce failure points and electrical hazards in combustible or hard-to-access areas by using long-range PoE switches instead of multiple extenders.

Deployment Considerations

Speed vs. Distance: Extending PoE beyond 100 meters often reduces data speed to 10 Mbps; plan critical applications accordingly. **Power Budget:** Ensure the switch's total PoE budget can support all connected devices at the required wattage.

Cabling: Use high-quality Ethernet cables (Cat5e or higher) to maintain signal integrity over long distances. **Network Planning:** Assess device placement and network topology during the planning phase to optimize performance and minimize installation costs.

Long-distance Po

E switches provide a cost-effective and reliable solution for extending network connectivity and power to remote devices, simplifying deployment in challenging environments while maintaining network performance and safety.

Article Content

Long Range PoE+ Switches

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Long Range PoE+ Switches | TRENDnet

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9 Best Long Range POE Switch | Extend Your Network 820 Feet

This guide focuses specifically on the hardware, specs, and trade-offs that define a best long range poe switch, helping you match the right port count, power budget, and management features to your

Long Range PoE+ Solutions

Flexible, Selectable DIP Switch The Edimax Long Range PoE+ Series Switch features flexible and selectable DIP switches for separating PoE ports. Select to extend extra 100 meters PoE distance to

Long Distance PoE Switches: Enhancing Your Network Range

Explore the benefits and applications of long-distance PoE switches for extending network range without sacrificing performance. Learn about installation tips, cost efficiency.

Long Range PoE+ Solutions

Edimax provides the solutions to overcome the PoE distance limitation with the following solutions: 1) Long Range PoE+ Switch Series: Simply clicks on the DIP

1500ft 8 Port Long Range PoE+ Switch, PoE Extension with ...

The 1500ft Long Range PoE+ Switch works with standard IEEE802.3 PoE/PoE+ IP devices only. The system will not work while your devices are passive PoE or non-PoE equipment.

Long Distance PoE

With the PoE powered switch, you can extend power and data for another 100 meters, providing an extended range for devices that are farther away from the

4-Port Long Range PoE+ Switch

A power source is built in the long range Poe switch, no additional AC outlet is required near the connected PDs, plug-and-play, wall mountable extender switch.

Industrial Gigabit Ethernet Switch DIN Rail 2 SC Fiber 4 Port PoE ...

The Industrial Gigabit 2 SC Fiber 4 Port PoE Switch is engineered for demanding industrial networking applications that require reliable power delivery and long-distance fiber communication.

7 Best PoE Switches (July 2026) Tested and Reviewed

After testing 15 different models and analyzing thousands of user reviews from forums like r/HomeNetworking and ServeTheHome, I have narrowed down the 7 best PoE switches for 2026.

Dahua 24-Port PoE Switch | Amaget

24-Port PoE Switch | 360W Power Budget | Layer 2 Managed | Long Range PoE The Dahua DH-PFS4226-24ET-360 is a professional 24-port managed PoE switch designed for CCTV systems and

PoE Switches

PoE Switches We provide a wide range of PoE/PoE+/PoE++ switches with up to 90 W output per port to deliver high-speed data transmission while powering high-power devices over long distances. With

Alta Labs S16-POE Cloud-Managed PoE+ Switch w/ 16 Gigabit

16-Port Gigabit PoE+ Managed Switch for Business & Enterprise - The Alta Labs S16-POE delivers 16 10/100/1000 Mbps Ethernet ports with 8 PoE+ (802.3at/af) enabled ports providing up to 30 W per

How to Connect a Uniview PoE Camera with Long Distance

Learn how to properly connect Uniview PoE cameras over extended cable runs using enhanced switches, repeaters, and PoE extender modes for stable long-distance transmission.

TRENDnet 8-Port Gigabit Long Range Poe+ Switch, TPE-LG80

ETHERNET PORT CONFIGURATION: 8 Port Gigabit Long Range PoE+ Switch includes 8 Gigabit PoE+ ports provide a 16Gbps switching capacity to support edge network installations. LIFETIME

18-Port Gigabit EdgeSmart PoE+ Switch

This reliable, easy smart PoE+ switch by TRENDnet features gigabit PoE+ ports, plus SFP ports for long distance networking; offers the most common managed switch features & reduces switch complexity.

AI6024H 24-Port long distance AI PoE switch – Foreedge

24 10/100Mbps RJ45 PoE ports, of which 17-24 ports can support 100M ultra-long distance 500 meters transmission (used with long-distance splitter) 2 10/100/1000Mbps RJ45 ports

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

