

Gigabit PoE switch and network cable



Overview

Amazon.com: Gigabit Poe Switch 8 Port Gigabit PoE Switch with 2 Gigabit Uplink, 120W Built-in Power, 802.3af/at Compliant, Managed PoE+ Switch Support VLAN.

Key Takeaways

A Gigabit PoE switch delivers both data and electrical power over a single Ethernet cable, simplifying network deployment for devices like IP cameras, access points, and VoIP phones. What is a Gigabit PoE Switch?

A Gigabit PoE (Power over Ethernet) switch is a network switch that can transmit 1 Gbps data and electrical power simultaneously over standard Ethernet cables. This eliminates the need for separate power adapters for devices such as IP cameras, wireless access points, and VoIP phones, reducing cable clutter and installation complexity. PoE switches come in managed and unmanaged versions:

- Unmanaged switches are plug-and-play, automatically detecting PoE devices and supplying power, ideal for small offices or home networks.
 - Managed switches provide advanced features like VLANs, QoS, per-port PoE control, and remote device rebooting, suitable for larger or more complex networks.
- PoE Standards and Power Delivery

PoE switches comply with IEEE standards:

- 802.3af (PoE): Provides up to 15.4W per port.
- 802.3at (PoE+): Provides up to 30W per port.

- 802.3bt (PoE++/4PPoE): Provides up to 60–90W per port for high-power devices . Some switches also support multi-gigabit speeds (2.5G, 5G, 10G) over Cat5e/Cat6 cabling, which is useful for high-bandwidth applications like HD video streaming or large data transfers .

Network Cable Considerations

The type and quality of Ethernet cable are critical for PoE performance:

- Cat5e: Supports Gigabit speeds and PoE up to 30W over distances up to 100 meters.
- Cat6/Cat6a: Better shielding and higher bandwidth, suitable for multi-gigabit PoE and longer runs.
- Cable length: Standard PoE can transmit power up to 100 meters (328 ft) without significant loss . For devices that require PoE but are located far from the switch, a PoE splitter can be used to separate power and data, allowing non-PoE devices to receive power safely .

Advantages of Using PoE Switches

- Simplified installation: One cable for both power and data.
- Cost-effective: Reduces the need for electrical outlets and adapters.
- Flexible deployment: Ideal for ceiling-mounted access points, outdoor cameras, or remote devices.
- Scalable: Multi-port switches allow easy expansion of networked devices .

Choosing the Right PoE Switch

When selecting a Gigabit PoE switch, consider:

- Number of devices: Match the number of PoE ports to your devices.
- Power budget: Ensure the total PoE wattage meets the needs of all connected devices.
- Managed vs unmanaged: Choose based on network complexity and control requirements.
- Cable type and distance: Ensure your Ethernet cables support the required speed and power over the intended distance.
- Future-proofing: Multi-gigabit PoE switches provide higher bandwidth for growing network demands . Using the right combination of Gigabit PoE switches and quality Ethernet cables ensures reliable data transmission and power delivery, making network deployment efficient, scalable, and cost-effective.

Article Content

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PoE Splitter, 2 Port Gigabit PoE Switch, Network Hub 1

□1-to-2 Gigabit PoE Splitter□This PoE-powered switch functions as a 1-to-2

Network Switches | PoE Switch | Gigabit Ethernet Switch

It supplies both a network connection and electrical power to certain devices, such as wireless access points, eliminating the need for

Poe Gigabit Switch

Yes, a PoE Gigabit switch can connect to both PoE-enabled and non-PoE devices. Non-PoE devices will only receive data, while

5-Port Gigabit Easy Smart Switch with 4-Port PoE+

Equipped with four 802.3af/at PoE+ ports with up to 30W for each port, data, and power can be transferred

Power Over Ethernet Switches

These switches are designed to transmit both network data and electrical power through standard Ethernet cables, eliminating the

PoE+ Network Switch

PoE+ switches use standard Ethernet cables, such as Cat5e or Cat6, to deliver both data and power to connected devices. However,

12 Best PoE Switches (August 2026) Complete Guide

While most switches work with any Ethernet cable, proper ethernet cable requirements matter for maximum performance. Use at

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PoE Splitter with 4.25FT Cat6 Ethernet Cable, Gigabit Ethernet Switch

PoE Splitter with 4.25FT Cat6 Ethernet Cable, Gigabit Ethernet Switch 2 Port, Internet Splitter 1 in 2 Out, Non-PoE to PoE Adapter,

PoE Ethernet Switch

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8 Port Gigabit PoE Switch with 2 Gigabit Uplink, 120W Built-in

About this item STEAMEMO 8-Port Managed Gigabit PoE+ Switch: 8 port managed gigabit PoE switch

Multi-Gigabit Switches

Scale smarter with managed switches featuring PoE, multi-gig speeds, SFP uplinks, and seamless cloud or on-site control.

NETGEAR 16-Port PoE Gigabit Ethernet Unmanaged Network Switch

Product Description Introducing the NETGEAR GS316P 16-Port Gigabit Ethernet Unmanaged PoE+ Switch with 115W PoE budget.

What is a PoE Switch

A PoE switch is a regular Fast Ethernet or Gigabit network switch that has Power over Ethernet functionality

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NETGEAR 8-Port Gigabit Ethernet Unmanaged Network Switch

The NETGEAR 8-port Gigabit unmanaged switch provides an easy, reliable, and affordable way to expand your network connections

NETGEAR 48-Port PoE Gigabit Ethernet Unmanaged Network Switch

Product Description Introducing the NETGEAR GS348PP 48-port Gigabit Ethernet Unmanaged PoE+ Switch with 380W PoE budget

NETGEAR 5-Port Gigabit Ethernet Unmanaged Network Switch

Product Description The NETGEAR 5 Port Gigabit unmanaged Switch provides an easy, reliable, and affordable way to expand your

Best Network Switches: Add Ports, Speed to Your Network | Tom's

Who needs a wired connection from one of the best network switches when you can get Gigabit speeds or better from

A Beginner's Guide to Multi-Gigabit Power over

Multi-gigabit power over Ethernet (PoE) combines the high-speed capabilities of multi-gigabit

UGREEN Ethernet Switch, 6-Port PoE Switch, 4 PoE+@60W + 2 Gigabit ...

About this item More Ports, PoE Ready: UGREEN PoE Switch offers 4 PoE+ (802.3at/af) Gigabit ports (up to 30W each) and 2

NETGEAR 52-Port PoE Gigabit Ethernet Smart Managed Network Switch ...

About this item GIGABIT ETHERNET PORTS: Features 48 x 1.0Gbps Ethernet ports for high-speed connectivity. Auto-negotiating

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The best Ethernet switches enable you to add several Ethernet ports so you can wire up your most important

NETGEAR 16-Port PoE Gigabit Ethernet Unmanaged Network Switch

The NETGEAR GS116LP Unmanaged Power over Ethernet (PoE) Switch is designed for desktop or rackmount and features 16-Port

PoE Splitter, 2 Port Gigabit PoE Switch, Network Hub 1 in 2 Out ...

PoE Splitter, 2 Port Gigabit PoE Switch, Network Hub 1 in 2 Out, Supports IEEE 802.3at/af (POE+/POE) Standards, Power Over

Unmanaged Switches for Easy Plug-and-Play Connectivity

Yes, many NETGEAR unmanaged switches offer PoE. These models provide both data and power over a single Ethernet cable,

Network Switches | Gigabit, PoE & Managed | 4Cabling

Shop managed, unmanaged and PoE network switches. Gigabit options with rackmount or desktop form factors. Australia-wide

PoE Splitter with 4.25FT Cat6 Ethernet Cable, Gigabit Ethernet Switch

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8 Port Gigabit PoE Switch with 2 Gigabit Uplink, 1000Mbps, 802.3af/at, 120W Built-in Power, Vlan, Unmanaged Metal Plug and

Gigabit Ethernet Network Switches

Gigabit ethernet network switches are essential for building fast, reliable wired networks in both home and business environments.

NETGEAR 10-Port PoE Gigabit Ethernet Smart Managed Network Switch ...

The NETGEAR GS110TPv3 8-Port Gigabit PoE+ Ethernet Smart Managed Pro Switch comes with 8 PoE copper ports and 2

Cisco Multigigabit Technology

As wireless speeds increase, don't let your switches become a bottleneck. Prepare your access switches for Wi-Fi 6 and 802.11ac

Network Switches & Ethernet Switches

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PoE Switches to Simplify Your Power and Network Setup

Streamline your network with NETGEAR PoE switches that deliver power and data over one cable. Choose

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