

Switch with 1 Gigabit Ethernet and 4 Electrical Ethernet

Article Overview

A 1-to-4 Gigabit Ethernet switch allows a single 1 Gbps connection to be split across four devices with full-speed performance.

Overview

A 1-to-4 Gigabit Ethernet switch (also called an Ethernet splitter or LAN hub) takes a single Gigabit Ethernet input and provides four RJ45 output ports, enabling multiple devices to connect to the same network simultaneously while maintaining high-speed data transfer up to 1000 Mbps per port . These devices are typically plug-and-play, requiring no configuration, and are powered via USB-C or an external adapter for stable operation .

Key Features

- o Full Gigabit Speed: Each of the four output ports can support 1000 Mbps, ensuring no bandwidth loss if the broadband connection is Gigabit-capable .
- o Compatibility: Works with Cat5, Cat5e, Cat6, Cat7, and Cat8 cables and is compatible with computers, laptops, routers, smart TVs, printers, access points, and security cameras .
- o LED Indicators: Most models include dual-color LEDs to show network status and connectivity for each port .
- o Plug-and-Play: No software or configuration is needed; simply connect the input and output devices .

Use Cases

- o Expanding a single Ethernet port from a router or modem to connect multiple devices in a home or small office.
- o Connecting networked devices like PCs, printers, smart TVs, and IP cameras without losing speed.
- o Temporary or portable setups where multiple devices need simultaneous network access.

Considerations

- o Network Speed Limitation: The maximum speed per port depends on the incoming broadband speed. If your internet is below 1 Gbps, the switch will not increase speed beyond your ISP limit .
- o Cable Quality: For full Gigabit performance, Cat6 or higher cables are recommended, especially for distances up to 100 meters .
- o Not a Managed Switch: These devices are typically unmanaged, meaning they do not support VLANs, QoS, or advanced network management features.



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Summary

A 1 Gigabit Ethernet to 4-port electrical Ethernet switch is an efficient, cost-effective solution to expand a single high-speed network connection to multiple devices. It is ideal for home or small office setups, offering plug-and-play installation, full Gigabit speeds, and broad device compatibility .

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AUBEAMTO 5 Port Gigabit Ethernet Switch with USB Power Cable, 1000Mbps Ethernet Splitter 1 to 4 Out

Learn what a Gigabit Ethernet switch is, how it works, key features, and how to choose or connect one. Compare

Features: o 4 x Gigabit PoE+ ports o 1 x Gigabit port o 32W PoE power budget o 10Gbps switching capacity o IEEE 802.1p QoS and

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A gigabit ethernet switch allows multiple devices to communicate with each other and access the internet simultaneously at high

An Ethernet switch is essential network hardware that connects wired devices within a Local Area Network (LAN), allowing them to

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LGB300 Series Gigabit Ethernet (1000-Mbps) Switch - (4) 10/100/1000-Mbps Copper RJ45 This compact portable gigabit Ethernet

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