

Splitter Switching Networks



Article Overview

Network switches intelligently manage traffic between multiple devices, while Ethernet splitters simply divide a single cable without traffic management or bandwidth increase.

Network Switches

A network switch is an intelligent device that connects multiple devices within a network, such as computers, printers, IP cameras, or access points, and manages data traffic efficiently . Switches operate primarily at Layer 2 (Data Link) of the OSI model, with some advanced models functioning at Layer 3 (Network Layer) for routing. They use MAC address tables to forward data packets only to the intended recipient, reducing unnecessary traffic and collisions . Switches come in different types:

- Unmanaged switches: Plug-and-play, ideal for home or small networks.
- Managed switches: Offer advanced features like VLANs, Quality of Service (QoS), port mirroring, and network monitoring, suitable for businesses or larger networks .
- Smart switches: Provide some management features without the complexity of fully managed switches, often used in small to medium-sized businesses . Switches maintain full bandwidth for each connection, allow multiple simultaneous connections, and are scalable, making them suitable for growing networks . They are commonly used in home networks, offices, data centers, and for connecting devices like security cameras, VoIP phones, and wireless access points .

Ethernet Splitters...

Article Content

Difference Between an Ethernet Splitter and Switch: Understanding

In this article, we will delve into the world of Ethernet splitters and switches, exploring what each device does, their

Ethernet Splitters 101: Everything You Need to Know

Ethernet splitters explained: how they work, when to use them, and why switches are better for high-speed networks. Learn the facts

What Are the Key Differences Between an Ethernet Splitter, Hub, and

Splitter: Divides a single Ethernet connection into two, sharing bandwidth between devices without managing traffic. Switch:

Best CAT5 Ethernet Splitters in 2026

Ethernet Splitter or Network Switch? An ethernet splitter takes in one signal and simply splits it along the outputs, but

Ethernet Splitter vs. Switch: What's the Difference?

Ethernet Switch: What is it? An Ethernet switch, also known as a network switch, is a more advanced networking device that allows

VCELINK 2 Port RJ45 Network Switch, Ethernet Splitter 2-in 1

When one network is in use, the network switch provides physical isolation, effectively avoiding IP serial connection issues. Switch

TP-Link TL-SG105, 5 Port Gigabit Unmanaged Ethernet Switch

Buy TP-Link TL-SG105, 5 Port Gigabit Unmanaged Ethernet Switch, Network Hub, Ethernet Splitter, Plug & Play, Fanless Metal

Contact Us

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