

Access Switches and Modems



Overview

Internet access requires some of the common devices such as modem, router, switch, and access point. A modem is used to connect to the Internet. A router acts as a gateway to the computer network and is placed between a modem and a switch or hub. A switch connects devices such as a desktop, laptop, and access point to the router. An access point connects a computer network to the Internet. A computer network is a group of connected computers that can transfer data to each other. The Internet is a vast, sprawling collection of computer networks. The devices can be connected using wires, cables, and WiFi. Several kinds of hardware and infrastructure go into making the Internet work for the home. The most important devices are the following. A gateway is usually a device that can be used to connect two networks that use different models such as the OSI model and the Internet model. A gateway can be implemented as a router or switch using software, hardware, or a combination of both, depending on the types of protocols to be used across the network. There are several differences between the access point and the gateway. The access point is a device within the LAN and is used for extending the wireless coverage of a computer network. This can increase the number of users that can connect to a computer network. Access point device transforms the wired signal into a wireless and establishing connection with other devices in the network using WiFi. Sometimes, wireless router. This tutorial has provided an overview of the routers, switches, access points, and gateway devices. First, we discussed how these devices are connected to a computer network. We then talked about the differences between these devices and their use. To conclude, knowing about the routers, switches, access points, and gateway, is beneficial in understanding.

Article Content

Jul 24, 2025

Modem vs Router vs Switch vs Access Point: Differences, Roles, and

Networking Fundamentals Modem vs Router vs Switch vs Access Point: Differences, Roles, and How They Fit in a Home Network An evergreen beginner guide explaining the differences

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Core Switch vs. Distribution Switch vs. Access Switch

The access layer consists of layer 3 switches, which take routed and switched data packets from the distribution switches and then route them to the access devices

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Modem vs Router vs Access Point: What's the difference and when to

Conclusion In summary, modems, routers, and access points each serve unique functions within a network. A modem connects you to the internet, a router manages and distributes that

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Modem vs Router vs Switch vs Access Point: Key

Explore our comprehensive guide on modems, routers, access points and switches. Discover how each device impacts your network and which one

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Modem vs Router vs Switch: Key Differences

Learn the differences between a modem, router, and switch, how each works, and which one you need for your home or office network.

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Common Types of Network Devices and Their Functions

Common types of network devices include repeater, hub, bridge, switch, routers, gateway, brouter & network interface card. Learn more about

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What are Hub, Switch, Router, and Modem?

In this article, we will discuss hub, switch, router, and modem, their integral functions, and how they differ from one another.

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Modem, Router, and Access Point: What's the Difference?

Do you know the difference between, say, a switch and a hub? Keeping straight the devices that help you access the internet is no small feat.

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Router vs Switch vs Hub vs Modem vs Access Point vs

First, I'll talk about the difference between switches and hubs, as both of those devices are in the same category. Next, we'll talk about routers and why

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Understanding Access Points, Routers, and Switches

Understand access points, routers, and network switches with this practical guide to structured cabling, PoE design, and enterprise wireless

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Understanding Network Equipment: Routers vs.

Understand router vs switch vs modem! Learn the key differences between these network devices. Discover what each does for your network.

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Modem, Router, Switch, and Access Point: What's the

Don't know the difference between a modem and a router? Unsure what an access point does compared to a switch? Here's a quick rundown of the

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Understanding Modems, Routers, and Access Points | Social WiFi

Access Points are typically attached to the routers, but might also be connected to the modem (although it is advised to connect any devices to the former). It generates WiFi signal you can connect to,

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Understanding Routers, Switches, and Network Hardware

A modem connects your home network to the Internet, and a router ensures the traffic from the Internet reaches the correct device on your network

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What is an Ethernet switch?

What is an Ethernet switch? An Ethernet switch is a type of network hardware that is foundational to networking and the internet. Ethernet switches connect cabled

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Routers vs. Switches vs. Access Points vs. Gateway

In this article, we'll compare Router VS Switch, Access Point VS Router, Gateway VS Router, and Wireless Access Point VS Router. There are also some common misconceptions that

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Network Devices

A switch is a high-speed networking device that connects devices (computers, printers, servers) within a Local Area Network (LAN), Unlike hub,

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Routers vs. Modems vs. Switches

Routers, modems and switches are essential components to home and business networking equipment. Here, we compare the differences in these

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Modem, Router, Switch and Access Point: What They

Learn what a modem, router, switch and access point do, how they work, and the roles they play in a network in simple yet detailed terms.

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The Internet Duo: How modems and routers work together

Uncover the synergy between modems and routers in our detailed guide. Understand their functions and how they work together for optimal internet performance.

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Modem, Router, Switch, and Access Point: What's the Difference?

What is a modem? What is a router? Do you know a switch from a hub? If you don't know the difference between all the devices that help you get online, this guide explains it all.

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