

Less Line Access Switch and Other Devices



Article Overview

An access switch is a network edge device that connects end-user devices to the broader network, while other devices like distribution and core switches, routers, and gateways manage traffic aggregation, routing, and inter-network communication.

Access Switches

Access switches operate at the network edge, directly connecting devices such as computers, IP phones, wireless access points, cameras, and IoT devices to the network . They typically provide high port density, Power over Ethernet (PoE), and VLAN management, forwarding traffic upstream to distribution or core layers . Access switches are crucial for network access, security at the edge, and local traffic handling, serving as the first point of contact for end-user devices .

Distribution Switches

Distribution switches sit between access and core layers, aggregating traffic from multiple access switches . They often operate at Layer 3, enabling inter-VLAN routing, policy enforcement (QoS, ACLs), and traffic management to prevent congestion . These switches provide higher reliability and performance than access switches and act as intermediaries to ensure efficient data flow to the core layer .

Core Switches...

Article Content

Aug 23, 2025

Network Switches

Cisco network switches deliver performance, flexibility, and security. Cisco switches are scalable and cost

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Types of Switches in Computer Network

A network switch is a hardware device that connects multiple devices (computers, printers, servers, etc.) in a LAN

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Data Center Access Layer Design

Access layer switches are primarily deployed in Layer 2 mode in the data center. A Layer 2 access topology provides

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Data Center Access Layer Design

Inter-switch link bandwidth scaling—Some access layer designs send all traffic towards the primary root aggregation switch, while

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Overview of Layer 2 Switched Networks and Communication

So table contains two columns (Physical Address and Port Number) and rows equal to number of ports in switch.

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Routers vs. Switches vs. Access Points

Sometimes modem, router, switch, and access point come all bundled in one device. In this tutorial, we'll try to explain

Jan 05, 2026

Understanding Access Switches: Key Components of Your Network

Explore the role of access switches in your LAN setup. Understand their key components, functions in the access layer,

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Core Switch vs. Distribution Switch vs. Access Switch

There are different types of enterprise switches that perform various roles in these layer-based or hierarchical ethernet networks.

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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

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FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Network Devices

It is a networking hardware device that allows Wi-Fi-enabled devices, such as laptops and smartphones, to connect to a

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Access Switches: Connecting Devices to the Network

Unlike core switches, which handle high-volume traffic in the backbone of a network, access switches operate at the edge of the

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Networking Basics: What You Need To Know

Networking basics like switches, routers, and wireless products help your business share applications, speed information access,

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Core Switch Vs Distribution Switch Vs Access Switch□What

Core Switch Vs Distribution Switch Vs Access Switch□What's the difference□ Ethernet networks are expanding and their designs

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Access vs. Distribution vs. Core Switch Comparison Guide

Each layer is served by specialized switches, with the access switch connecting end-user devices, the distribution switch aggregating

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Access vs. Distribution vs. Core Switch Comparison Guide

Distribution Layer Switches: Positioned between the access and core layers, distribution switches aggregate traffic from multiple

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What Is an Access Switch? The Definitive Edge Network Guide

An access switch is the first network device most users and endpoints actually touch. It sits at the edge, connecting

Sep 25, 2025

Networking Devices 101: Understanding Routers,

Explore key networking devices such as routers, switches, hubs, bridges, gateways,

Jun 13, 2026

Access, Distribution, and Core Layers Explained

This tutorial provides an overview of the access, distribution, and core layers and explains

Feb 14, 2026

Routers vs. Switches vs. Access Points

Switches – connect devices within a single network, transfer incoming and outgoing internet traffic between the

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Choose access layer switch for the access layer network

What is the main function of an access layer? What does an access layer switch do? How to choose the right network

Oct 12, 2025

Troubleshoot Switch Port and Interface Problems

This document describes how to determine why a port or interface experiences problems.

May 18, 2026

Common Types of Network Devices and Their Functions (2026)

There are various types of network devices used in networks; some of the most common are hubs, switches, routers,

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Access, Distribution, and Core Layers Explained

It connects user devices such as PCs, IP phones, wireless access points, printers, and scanners to the network. User

Dec 31, 2025

Switch access

Switch access is the use of one or more switches to operate computers and other devices and is primarily used by people with

Contact Us

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