

What type of core switch is used in the campus network



Overview

Typically, core switches are Layer 3 switches equipped with robust network management capabilities. They are characterized by numerous ports and high bandwidth, offering greater reliability, redundancy, throughput, and lower latency compared to access and aggregation switches. The data routed and switched by the core switch is carried forward to the bottom layers of the network. The campus local area network (LAN) is the network that supports devices people use within a location to connect to information. The use of the word campus does not imply any specific geographic size or organizational boundary—the campus LAN can range in size from a single switch at a small remote. The Interconnect PIN (Tier 4) is an extension of the Core, used to connect multiple Core layers (areas) and/or other network domains. Sitting at the top of the hierarchical model, core switches interconnect distribution layer switches and provide high-speed data transfer across. A core switch is a high-capacity, high-performance Layer 3 switch positioned at the physical backbone of an enterprise network.



Article Content

May 09, 2026

What Is a Core Switch? Network Backbone Architecture Guide

A core switch sits at the heart of enterprise network architecture, providing high-speed backbone connectivity across the campus. To fully understand its role, it's important to first

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Understanding Core Switch: What It Is and How to

Typically, core switches are Layer 3 switches equipped with robust network management capabilities. They are characterized by numerous ports and

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Campus LAN Core and Distribution Switches

Cisco Catalyst and Meraki Campus LAN core and distribution switches are scalable, secure network switches with exceptional intelligence.

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A Complete Guide to Select a Campus LAN Switch

Campus switches are an integral part of any network, responsible for end-to-end connectivity within any organization. Selecting campus LAN switches

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What Is a Core Switch?

Sitting at the top of the hierarchical model, core switches interconnect distribution layer switches and provide high-speed data transfer across network segments. Unlike access or distribution switches, a

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Understanding the Core Switch: Key Differences and Uses

Explore the core switch's role as the backbone of your network. Discover key differences, uses, and insights into layer 3 core switch technology.

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Selecting Campus Switches and Routers

Choices! • Minimum requirements for L2 devices • Edge Switch • Distribution Switch • Campus Core Router • Campus Border Router • In all cases examples of mainstream vendor models are given to

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Campus LAN and Wireless LAN Solution Design Guide

The design uses multiple physical switches that act as a single logical switch, such as switch stack or Cisco StackWise Virtual Pair (SVP), or the less

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What Is a Core Switch in Networking?

Unlike access switches, which connect directly to end-user devices, the core switch focuses on aggregating and routing traffic between other

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Campus Network for High Availability Design Guide

Document Objectives This document presents recommended designs for the campus network, and includes descriptions of various topologies, routing protocols, configuration guidelines, and other

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Collapsed Core (Tier 2) focuses on connecting multiple Access layers and the WAN/Edge layer. The StackWise Virtual (SVL) Core PIN focuses on combining Core and/or Distribution into a single virtual

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Core Switch vs. Distribution Switch vs. Access Switch

A core switch is the primary switch installed at the backbone of a layered or hierarchical network. These data switches are responsible for routing and data

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Campus Network Design Guideline

Introduction Building a Campus network is more than only interconnecting physical network infrastructure devices. The most challenging

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What is a Core Switch | Functions and Difference over Normal Switch

What is a Core Switch? It is a powerful backbone switch in the center of the network core layer, which centralizes multiple aggregation switches to the core and implements LAN routing. The

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Core Switch vs. Distribution Switch vs. Access Switch

Core Switch vs. Distribution Switch vs. Access Switch: Understand Their Roles in Ethernet Networks Ethernet networks are growing and becoming more complex,

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Campus Core Design Considerations

Campus Core Design Considerations Last Updated on Sun, 19 Feb 2023 | Network Design Low price per port and high port density can govern switch choice for wiring closet

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Access, Distribution, and Core Layers Explained

A two-tier network combines hardware that supports the distribution and core layers. However, it uses separate hardware for the access layer. A one

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Selecting Campus Switches and Routers

Distribution Switch Campus Core Router Campus Border Router In all cases examples of mainstream vendor models are given to guide campus network administrators

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What is a Core Switch | Functions and Difference over Normal Switch

What is a core switch and how it works? This article builds the basics of this kind of switch for the ones who don't know anything about it. What is a Core Switch? It is a powerful

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What is a Campus LAN Switch & How are They Used?

What matters most is that these switches can provide the services needed to run the campus network. Access Layer The access layer is the last in the three-tier

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Understanding the Core Switch: Key Differences and Uses

A core switch is a high-capacity network switch that functions as a network's backbone or core layer. It's responsible for accurately routing

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