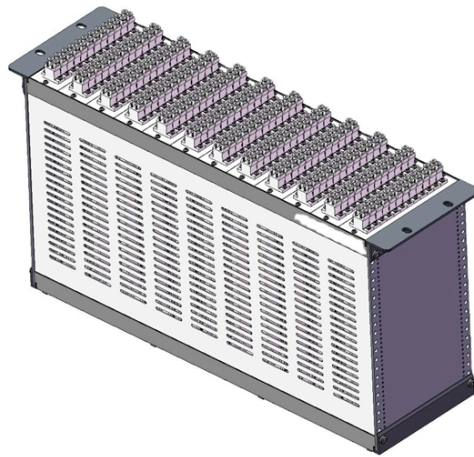


Core Switch Specifications and Models



Summary of Content

Core switches are high-performance Layer 3 switches designed for enterprise backbones, offering ultra-low latency, high throughput, and advanced routing capabilities.

Core Switch Overview

A core switch serves as the backbone of an enterprise network, aggregating traffic from distribution switches and providing high-speed connectivity across the LAN or data center. It is optimized for Layer 3 routing, modular scalability, redundancy, and ultra-low latency, ensuring uninterrupted packet forwarding. Core switches typically avoid resource-heavy tasks like deep packet inspection at the core, delegating security and QoS to lower layers to maintain maximum wire-speed throughput. Key features include:

- High-speed backbone connectivity (10G to 400G+ ports)
- Large buffers for bursty traffic
- Redundant power supplies and hot-swappable modules
- Support for advanced routing protocols, VLANs, and link aggregation
- Modular or stackable designs for scalability
- High availability with HSRP/VRRP failover support

Popular Core Switch Models

Cisco Catalyst 9500 Series

Article Content

Core Switch vs Access Switch | Definitions and Key Differences

This article focuses on the hierarchical internetworking and core switch vs access switch differences. We also

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Get the detailed specs for the Nintendo Switch™ - OLED Model, the Nintendo Switch, and the Nintendo Switch Lite systems, plus

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The so-called core switch is for the network architecture. If it is a small local area network with several computers, a

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Get a closer look at core switches: the nerve centers of network infrastructure that enhance performance and facilitate

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Ruijie Reyee's network switch products, including high-quality Core Switch models, are widely used across multiple

FortiSwitch Data Center Series Data Sheet

The FortiSwitch campus core and data center switching architecture empowers network administrators with the requisite

Core Switch Specifications and Features

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FS Community

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

Core Switch Explained: Key Functions and Benefits

Discover what a Core Switch is, its pivotal role in network architecture, and how it boosts performance and reliability in

CORE SWITCHES

The Quantum core switch series provides robust Layer 2 switching and advanced Layer 3 routing features to meet the mission

H3C S7500X Enterprise Core Switch Series

The S7500X switch series is a mature commercial IPv6 product that has passed the IPv6 network access certification of the Chinese

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

Core Switch

Core switches are defined as high-capacity switches located at the top of a cloud data center network, connecting aggregation

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

What is Core Switch and How to Choose-QSFPTEK

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Campus LAN Core and Distribution Switches

Build the foundation for an automated, digital-ready network with 400G core switches. Get set for whatever

Network Switch Competitive Comparison Chart

Explore the competitive comparison chart of Cisco network switches highlighting innovations that offer more capabilities for your

Understanding Core Switch: What It Is and How to Choose the

In the realm of system networking, three key types of switches are frequently mentioned: access switches, aggregation

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Explore what a core switch does, why it's essential for enterprise networks, and how to choose the right model. Includes real-world

What Is a Core Switch? Network Backbone Architecture Guide

This guide breaks down exactly what a core switch does, how it fits into the three-tier network model, and the exact

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Discover the top enterprise core switches for 2026. Our guide highlights the best options for performance, value, and

Core Switch vs Normal Switch: Key Differences Explained

What are the Differences Between the Core Switch and Normal Switch? By fiberlife.
Posted

What are data center-class switches?

Before making the decision to purchase switches for your data center, first be sure what your network needs and

RUCKUS Ethernet Switches

Get the best of both worlds with our RUCKUS Ethernet Switches - the most secure and reliable ethernet

Understanding Core Switch: What It Is and How to Choose the Right

A core switch is not merely a type of switch but rather denotes the switch that operates at the core layer (the network's

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Discover the top core switches for 2026 enterprise and data center networks. Compare modular, fixed, and high

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With 10 or 40 Gigabit Ethernet access ports and a high throughput backbone, FortiSwitch Data Center Switches are ideal for top-of

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