

Article Overview

Core switch models include Cisco Catalyst and Nexus series, Huawei CloudEngine S12700E, and Ruijie RG-S6120 series, covering modular, fixed, and high-density configurations.

Cisco Core Switch Models

o Catalyst Series

o Catalyst 9400 Series: Modular access switches with up to 9.6 Tbps throughput, UPOE+ support, and high availability for enterprise networks .

o Catalyst 9500 Series: Fixed core and distribution switches designed for resiliency and high-performance Layer 3 switching .

o Catalyst 9600 Series: High-security, scalable modular switches for campus core deployments .

o Catalyst 4500 Series: Layer 2-4 switching with virtualization and automation support .

o Catalyst 6500 Series: High-capacity chassis switches with up to 4 Tbps system bandwidth .

o Nexus Series

o Nexus 7000 Series: Modular data center switches with 10/40/100GbE scalability, NX-OS features, and high resiliency .

o Nexus 2000 Series: Fabric extenders paired with Nexus 7000 for expanded server connectivity .

Huawei Core Switch Models

o CloudEngine S12700E Series

o Modular switches with high port density, supporting up to 288 x 100GE ports across S12700E-4, S12700E-8, and S12700E-12 models .

o Designed for large-scale enterprise and data center core deployments with advanced management and energy efficiency features .

Ruijie Core Switch Models

o RG-S6120 Series

o High-performance switches with flexible port configurations, including 20 x 10GE SFP+, 4 x 25GE SFP28, and 2 x 40GE QSFP+ ports .

o Suitable for multi-segment enterprise networks requiring high-speed connectivity and modular expansion .

Key Features Across Core Switch Models

o Port Density: 24-48 ports in standard 1U/2U configurations, expandable in modular chassis .

Complete List of Core Switch Models

- o Interface Types: 1GbE, 10GbE, 25GbE, 40GbE, 100GbE, 400GbE .
- o Switching Capacity: Modern core switches typically support 1 Tbps or higher .
- o Advanced Capabilities: Layer 3 routing, MPLS support, SDN integration, intent-based networking, and AI-driven analytics .
- o Deployment Flexibility: Modular designs allow scaling with network growth, while fixed configurations provide cost-effective solutions for smaller cores . These models represent the current leading options for enterprise and data center core networks, offering a balance of high throughput, scalability, and advanced network management features. For detailed specifications and vendor comparisons, consulting official datasheets or supplier platforms is recommended .

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

Don't overspend on network hardware. Our expert guide explains core, distribution, and access switches so you can

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

Cisco switch products form the cornerstone of enterprise networks worldwide. As the leading networking equipment manufacturer,

The document provides high-level descriptions and product examples for each switch category.

Huawei Ethernet Switches Turbocharge your enterprise network with high-performance, high-availability for resilient services and

Switches HPE Aruba Networking switches enable secure, role-based network access for wired users and devices, independent of

Cisco has a comprehensive portfolio of network switches and switching solutions for enterprise networks, data centers and small

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

Network switches are networking devices operating at layer 2 or a data link layer of the OSI model. They connect devices in a

Complete List of Core Switch Models

Brochure highlights advantages of CX campus core switches, how they deliver critical high availability, exceptional scalable

Fortinet's Industrial Ethernet Switch Solutions are high-performance, cost-effective, and secure. Shop Fortinet's commercial ethernet

Explore the core switch's role as the backbone of your network. Discover key differences,

LAN Core and Distribution Curvature provides current, previous generation, and legacy Cisco LAN core and distribution switches that

Compare technical specs and more features of the Nintendo Switch(TM) - OLED Model, Nintendo Switch,

In enterprise networking, a core switch functions as the central hub that connects multiple distribution switches and manages large

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