Commonly Used Huawei Core Switch Models for Enterprise Networks



Overview

This guide provides IT administrators, network engineers, and enterprise procurement teams with insights on selecting, deploying, and managing Huawei enterprise switches.

Key Takeaways

Huawei core switches for enterprise networks commonly include the S6730-H24X6C and S7706 models, designed for high-speed, high-capacity, and reliable network backbones.

Core Layer Switch Overview

Core switches in enterprise networks handle high-speed traffic aggregation between departments, data centers, and campus networks. Huawei's core switches are engineered for high availability, redundancy, and scalability, supporting advanced features like Layer 3 routing, link aggregation, and dual power supplies to ensure uninterrupted operations in large-scale deployments. Key Huawei Core Switch ModelsS6730-H24X6C: A high-performance core switch suitable for medium to large enterprise networks.

It supports Layer 3 routing, multiple uplink options, and high port density, making it ideal for aggregating traffic from multiple access and aggregation switches. S7706: A modular core switch designed for large enterprise campuses and data centers. It offers high throughput, flexible port configurations, and redundancy features, including hot-swappable components and dual power supplies, ensuring continuous network operation.

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Cloud

Engine Series (Data Center Core): For enterprises with data center requirements, Huawei's CloudEngine switches provide ultra-high-density 40GE to 400GE ports, automation, programmability, and real-time visibility. These switches are optimized for AI, cloud computing, and large-scale intelligent computing clusters, supporting seamless integration with campus networks.

Features and Considerations

Huawei core switches are designed with the following enterprise-grade capabilities: High Availability: Redundant power supplies, fans, and failover mechanisms. Scalability: Support for stacking, modular expansion, and high port density. Advanced Routing: Full Layer 3 support, including OSPF, BGP, and VRRP.

Automation and Management: Integration with iMaster NCE for zero-touch provisioning, predictive analytics, and simplified operations. Security: ACLs, MACSec, and advanced encryption for secure enterprise traffic.

Deployment Tips

When selecting a Huawei core switch, enterprises should: Assess Network Traffic: Analyze current and projected bandwidth requirements. Plan Redundancy: Use dual power, link aggregation, and iStack for high availability. Integrate with Existing Infrastructure: Ensure compatibility with access and aggregation switches.

Leverage Automation: Use iMaster NCE for configuration, monitoring, and predictive maintenance. Huawei core switches like the S6730-H24X6C, S7706, and CloudEngine series provide robust, scalable, and future-ready solutions for enterprise networks, supporting both campus and data center environments with high performance and reliability.

Article Content

Choosing the Best Huawei Switch: Efficient and

This article explores Huawei''s enterprise switch portfolio, outlines key performance advantages, and helps organizations select the best model based on their

Network Switches | Huawei Enterprise

Designed for scenarios such as data centers, enterprise campuses, and enterprise private lines, making networks more simple, smart, open, and secure, as well as accelerating enterprise service

Huawei Enterprise Switches Guide: Selection, Deployment, and Key

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This guide provides IT administrators, network engineers, and enterprise procurement teams with insights on selecting, deploying, and managing Huawei enterprise switches.

CloudEngine S12700H Series Switches

CloudEngine S12700H series switches come in two models, which offer four and eight LPU slots, respectively. They provide ultra-high-density GE, 10GE, 25GE, 40GE, and 100GE full-rate access

Huawei Switch Models: Overwhelming Options or Strategic Advantage ...

Navigating Huawei switch models feels like walking into a tech labyrinth: the S5700, CE8800, and S6730 series all promise blazing speeds and ironclad security, but choosing the wrong one can

Huawei CloudEngine S8700 Core Switches | Modular Chassis Switch

With chassis models like S8700-04, S8700-06, and S8700-10, this series delivers unparalleled bandwidth (up to 16 Tbps), deep virtualization support, MACsec, silicon-based TCP

Huawei Enterprise Switches Overview | PDF | Virtual Private Network ...

The document discusses Huawei''s CloudEngine S Series campus switch portfolio, including their flagship core switches, the S16700 series, and core switches like the S12700E. It also covers the

Selecting the Right Huawei Switch to Enhance Enterprise Network

Optimizing enterprise network performance often starts with choosing a high-performance Ethernet switch. Huawei''s top-rated switches provide businesses with ...

2025 Core Switch Selection Guide: Avoiding Pitfalls & Model ...

This article provides an in-depth guide to core switch selection, recommending models like the Huawei S6730 Series for businesses of varying sizes (50/500 employees).

Enterprise Switch-HUAWEI CLOUD

Enterprise switches enable communications between cloud and on-premises networks at Layer 2. This allows you to migrate workloads in data centers or private clouds to the cloud without changing

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Ethernet Switches

Ethernet Switches After more than 20 years of unremitting efforts and stable development, Huawei provides extensive experience in Ethernet switches. With multiple industry-leading intellectual

Switches

Switches After more than 20 years of unremitting efforts and stable development, Huawei provides extensive experience in Ethernet switches. With multiple

Huawei Enterprise Switches Guide: Selection, Deployment, and Key Models ...

Comprehensive 2025 guide for Huawei enterprise switches, including selection, deployment best practices, and key models such as HW:S5735-L24P4S-A-N, HW:OMXD30000-N. Ideal for network

Choosing the Best Huawei Switch: Efficient and Reliable Enterprise ...

This article explores Huawei''s enterprise switch portfolio, outlines key performance advantages, and helps organizations select the best model based on their network requirements.

Top 10 Cisco Switches for Enterprise Networks in 2025

Top 10 Cisco switches for 2025. Compare models for performance reliability and scalability—ideal for enterprise network upgrades.

Huawei Ethernet Switches

Router-switch offers huawei CloudEngine, Campus and smb ethernet switches, provide high-availability, high-performance networking for large-scale data centers, ISPs, and enterprise IT networks.

Huawei Core Switch: Network''s Beating Heart? Can Centralized

Every enterprise network has a silent dictator—the Huawei core switch. Buried in server rooms or data centers, this unassuming device governs traffic flow between departments, cloud platforms, and

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