

How to select Huawei core switches



Summary of Content

Selecting the right Huawei core switch requires evaluating network size, performance requirements, redundancy, and functional capabilities to ensure scalability and reliability.

Understand Core Switch Role

A core switch acts as the backbone of your network, connecting all subnets and managing high-volume traffic efficiently. Key performance indicators include backplane bandwidth ≥ 10 Tbps, packet forwarding rate ≥ 200 Mpps, and support for 100G optical transceivers to future-proof your network for at least five years. Core switches must handle mission-critical applications like ERP systems, video surveillance, and real-time communications without bottlenecks.

Key Selection Criteria

1. Network Size and Deployment Scenario

- Small offices (≤ 50 users): 24-port 10G Layer 3 switches like the Huawei S6730 series are sufficient.
 - Medium to large enterprises (hundreds of users): Consider switches with higher port density, multi-gigabit uplinks, and modular scalability to accommodate growth.
 - Data centers: High-end CloudEngine series with 400G support, low latency, and advanced automation features are recommended.
- #### 2. Performance Requirements
- Evaluate throughput, latency, and packet forwarding rate based on applications such as video conferencing, AI analytics, or virtualization.

Article Content

Huawei 12-Port Switches Guide: How to Choose the Right One

A practical, no-fluff guide to selecting a Huawei 12-port switch—covering PoE+, Layer 3 capability, uplink options, real

How to Choose the Best Huawei Switch for Your Network Needs

Huawei offers several categories of switches tailored to different use cases and deployment scales. Understanding

Switches

With multiple industry-leading intellectual properties and patents, Huawei provides more than a hundred switch models in more than

Network Switches | Huawei Enterprise

Select Only the Best for Your Business Campus Switches Huawei campus switches are ideal for building future-proof campus

Huawei 48-Port Switch Guide: How to Choose the Right One

A practical, no-fluff guide to selecting a Huawei 48-port switch—covering real-world use cases, key specs to compare,

Huawei Switch Basic Configuration Step by Step

□□ In this video, I will show you step by step on how to configure Huawei switch using an actual device with the latest

General Solution Selection Guidance

After you complete basic configurations for this midsize office network according to the selected examples, you can also deploy

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

Discover Huawei switches that deliver high-performance, stability, and scalability for businesses of all sizes. Get

How to choose the right core switch for a medium to large

In medium to large networks, core switches are key devices to ensure efficient, stable and secure network operation.

SME Network Solution Typical Configuration Examples

"Gateway + Core Switch + Aggregation Switch + Access Switch + WAC + AP + AR180" Networking: Local Entire Network

Contact Us

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