

# Huawei core switch used as a router



## Overview

Native AC Solution: Core Switches Function as the Gateway for Wired In this example, a CSS of core switches functions as the gateway for wired and wireless.

## Key Takeaways

Huawei core switches and routers provide high-performance, scalable, and intelligent networking solutions for enterprise and campus networks.

## Core Switch Overview

Huawei core switches, such as the CloudEngine series, serve as the backbone of enterprise and campus networks, handling high-volume data forwarding and ensuring network reliability. They support CSS (Cluster Switching System) for high availability, stacking, and uplink/downlink Eth-Trunk interfaces to increase bandwidth and redundancy. Core switches also integrate native AC functions to manage access points and unify wired and wireless traffic, enabling seamless convergence across the network.

## Router Integration

Huawei routers, particularly the AR series, act as the WAN gateway for campus networks, connecting internal networks to external networks or the internet. Core switches are configured to interconnect with AR routers using VLAN interfaces and static routes, ensuring smooth intranet-to-extranet communication and proper routing of user services. This combination allows centralized management, traffic prioritization, and high network efficiency.



## Key Features and Benefits

**High Performance and Scalability:** Core switches handle large-scale data forwarding and support high-density connections for enterprise and data center environments.

**Automation and Intelligence:** Integration with Huawei's iMaster NCE enables automation, traffic intelligence, and zero-touch configuration.

**Seamless Wired and Wireless Convergence:** Core switches manage APs and wireless traffic, providing consistent user experience across wired and wireless networks.

**Redundancy and Reliability:** Features like stacking, MAD (Multiple Active Detection), and Eth-Trunk interfaces ensure high availability and fault tolerance.

**Enterprise Applications:** Huawei's router-switch solutions support SD-WAN, VLAN isolation, high-density Wi-Fi, and secure data transmission, improving network efficiency and reducing operational costs.

## Deployment Scenarios

**Campus Networks:** Core switches act as the gateway for wired and wireless users, while aggregation switches provide device-level backup and increased interface density.

**Data Centers:** CloudEngine switches offer VXLAN-based virtualization, high-speed connectivity, and simplified network management for large-scale data centers.

**Enterprise Networks:** Huawei routers and switches together provide end-to-end visibility, centralized configuration, and support for thousands of concurrent devices with minimal downtime.

## Conclusion

Huawei core switches and routers form a robust, intelligent, and scalable network infrastructure suitable for enterprises, campuses, and data centers. By combining high-performance switching with intelligent routing, these solutions ensure reliable connectivity, simplified management, and seamless integration of wired and wireless networks, making them ideal for modern digital transformation initiatives.

## Article Content

Native AC Solution: Core Switches Function as the Gateway for Wired

In this example, a CSS of core switches functions as the gateway for wired and wireless users on the entire network and is responsible for routing and forwarding of user services on the entire network.

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Huawei campus switches are ideal for building future-proof campus networks with simplified management, high reliability, and service intelligence, across

Huawei NetEngine Router Performance Deep Dive: Internal ASIC,

**Conclusion: Redefining Core Routing Performance** The Huawei NetEngine series represents a convergence of high-performance silicon, intelligent software, and robust reliability. ...

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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 applications and Cisco/Huawei/Aruba model comparison.

### Achieving Line-Rate Forwarding: Buffer Allocation and QoS

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### Computing

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### What Is a Switch? What Is It Used for?

What Is a Switch? A switch enables network communication for connected IT devices. Switches fall into different categories from different perspectives, including Ethernet switches, Layer

Can I use a Router as a Switch? | A Simple Guide to do So!

Someone sent us a query asking, "can I use a router as a switch" and if yes, how to do it? This article explores how we can use our routers as switches and why we need them in the first

Network Switches | Huawei Enterprise

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

SME Network Solution Typical Configuration Examples

"Gateway + Core Switch + Access Switch + AP + AR180" Networking: Huawei eKit Cloud Management "Gateway + Core Switch + Access Switch + WAC + AP" Networking: Local Entire Network

Using a Router as a Switch: A Simple Guide

Transform your networking setup! Learn how to repurpose your router into a switch with this easy-to-follow guide.

How do I set up my HUAWEI router as a wireless switch for my old router

If this is the first time you have configured the HUAWEI router, you need to complete the Internet connection wizard before you can enter the Connect to Internet page. Only a one-pack router can be

Huawei router and switch connection configuration plan, two

As a leading global ICT solutions provider, Huawei's router and switch products play a key role in building advanced network infrastructures. So how are Huawei's routers and switches

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