

How are Huawei s core switches



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

Huawei's core switches are high-performance, scalable, and feature-rich devices designed for enterprise and data center networks. Performance and Scalability

Huawei core switches, such as the S6730-H series, offer high backplane bandwidth (up to 2.4 Tbps) and packet forwarding rates of 490 Mpps, making them capable of handling large volumes of data traffic efficiently . They support high-density 10 GE downlinks and 40/100 GE uplinks, which is ideal for bandwidth-intensive applications like Wi-Fi 6, 4K/8K video streaming, and virtualization workloads . These switches are suitable for both campus backbone and enterprise core roles, providing a robust foundation for modern digital infrastructures .

Advanced Features

Huawei core switches integrate Layer 3 routing protocols such as OSPF, BGP, RIPng, IS-IS, VRRP, and ECMP, enabling flexible and reliable network routing . They also support VXLAN with BGP-EVPN for multi-tenant segmentation and cloud-scale network designs, enhancing network virtualization and scalability . Built-in WLAN AC capabilities allow management of up to 1,024 APs, enabling seamless wired and wireless convergence .

Reliability and Security

These switches provide redundant power supplies, logical stacking, and Ethernet ring protection (SEP/ERPS) with sub-50 ms fault recovery, ensuring high network availability . Security features include ECA, detection of encrypted anomalies, network-wide deception, and protection against DoS, DHCP spoofing, and ARP attacks, making them suitable for sensitive enterprise environments .

Management and Automation

Huawei core switches run on VRP OS, offering intelligent O&M, real-time telemetry, and dynamic QoE insights. Tools like iPCA, TWAMP, and CampusInsight allow proactive network optimization and granular fault location . Features like HOUP for one-click upgrades and flexible on-prem/cloud management simplify operations and maintenance .

Deployment Scenarios

Huawei core switches are widely used in finance, education, manufacturing, public services, and large enterprise campuses . They can function as the gateway for wired and wireless users, manage APs, and handle DHCP services, VLANs, and Layer 2/3 communication efficiently . For smaller networks, models like the S5700 can serve as core switches, while larger deployments benefit from the S6730 series .

Summary

Huawei core switches are highly reliable, scalable, and feature-rich, offering advanced routing, virtualization, security, and management capabilities. They are suitable for enterprises and data centers that require high-performance, resilient, and future-proof network infrastructure .

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