

Article Overview

Huawei's core switches, including the CloudEngine S8700 and S6700 series, deliver high-performance, scalable, and secure solutions for enterprise and data center networks.

Overview of Huawei Core Switches

Huawei offers a broad portfolio of network switches designed for data centers, enterprise campuses, and high-end networks, supporting digital transformation, virtualization, and cloud services . Core switches are engineered for high bandwidth, low latency, and high availability, making them suitable for large-scale deployments and mission-critical applications .

CloudEngine S8700 Series

The CloudEngine S8700 Series represents Huawei's flagship modular core switches for large enterprises and data centers . Key features include:

- o Modular chassis: Models like S8700-04, S8700-06, and S8700-10 support up to 18 line card slots, allowing flexible port configurations.
- o High bandwidth: Up to 16 Tbps switching capacity.
- o Port flexibility: Mix of 10/25GbE access ports with 100/400GbE fabric uplinks.
- o Advanced hardware acceleration: Silicon-based TCP offload, VXLAN gateway, and overlay switching with BGP-EVPN.
- o High availability: Hot-swappable MPUs, LPUs, fans, and power modules with N+1 redundancy (AC/DC options).
- o Security and reliability: MACsec hardware encryption per port, trusted boot, ARP/NDP protection, and TCAM-based rate-limiting for DDoS mitigation.
- o Network scalability: Full CSS 2.0 chassis clustering for any-to-any core spine fabrics, MPLS EVPN, SRVFN, and L3 multilayer aggregation support. These features make the S8700 series ideal for next-generation IT networks, supporting high-density, low-latency, and secure data center fabrics .

S6700 Series

The S6700 Series is a high-performance 10G switch that can function as a core switch in campus networks or as an access switch in data centers . Highlights include:

- o Port density: Up to 48 line-speed 10GE ports.
- o High forwarding performance: Supports 1GE and 10GE access with flexible optical module identification.
- o Security features: DHCP snooping, ARP spoofing prevention, IP/MAC source checks, and 802.1x

Huawei s Network Core Switches

authentication.

- o Redundancy and reliability: VRRP support, E-Trunk for link backup, and Smart Ethernet Protection (SEP) for millisecond-level failover.
- o QoS and traffic management: Comprehensive QoS policies and buffer scheduling for high-volume traffic. The S6700 is suitable for campus core aggregation and medium-scale data center access, providing a balance of performance, security, and manageability .

Applications and Benefits

Huawei core switches are widely deployed in finance, education, manufacturing, public services, and cloud data centers . They offer:

- o High availability and reliability for mission-critical services.
- o Scalability to support growing network demands.
- o Automation and programmability for simplified network management.
- o Security with hardware-based encryption and advanced access control.
- o Integration with cloud and virtualization platforms, enabling smooth digital transformation .

Summary

Huawei's core switches, particularly the CloudEngine S8700 and S6700 series, provide modular, high-capacity, and secure solutions for enterprise and data center networks. They combine high performance, flexible port configurations, advanced security, and network automation, making them suitable for modern, large-scale, and mission-critical network environments .

Ethernet-Switches von Huawei liefern Ihrem Unternehmensnetzwerk eine hohe Leistung, hohe

Huawei CloudEngine S16700 series flagship core switches are next-generation flagship modular core switches designed for high-end

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

Networking Requirements Core switches set up a CSS that functions as the core of the entire campus network to implement high

CloudEngine S6750-S series switches are Huawei's next-generation enterprise-class core and aggregation

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

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Huawei S7700 series switches are smart routing switches with unified user management for campus

I specialize in advanced network configurations, troubleshooting, and providing expert-level

Explore Huawei CloudEngine S8700 modular chassis switches, designed for enterprise cores and data centers, these

Directory of Huawei enterprise IT infrastructure products, solutions, and services.

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

S6320-SI Series Multi-Gigabit Switches Huawei S6320-SI series switches are Huawei-developed next-generation multigigabit 10GE

Huawei CloudEngine series switches are high-performance cloud switches designed for next-generation data centers and high-end

CloudEngine S8700 series switches are designed for future-proof cloud campus networks to improve user experience and reduce

CloudEngine S16700 series switches are flagship core switches with record-high performance designed for high-quality 10 Gbps

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

Web: <https://www.millstraining.co.za>

