

Article Overview

Huawei Data Core Switches, particularly the CloudEngine series, are high-performance, scalable, and programmable Ethernet switches designed for modern data centers and high-end campus networks.

Overview

Huawei's CloudEngine Data Center Switches are engineered to support diverse applications and network sizes, from small deployments with 500 servers to large-scale environments exceeding 50,000 servers. They provide network scaling, automation, programmability, and real-time visibility, enabling enterprises to accelerate digital transformation and service innovation. These switches are suitable for data centers, enterprise campuses, and private lines, offering simplified operations, high reliability, and secure connectivity.

Key Features

- o High-Density Ports: Huawei offers ultra-high-density port options ranging from 10GE to 400GE, including 40/100/200GE uplinks, supporting rapid service evolution.
- o Modular and Fixed Options: Modular switches with backplane-free Clos architecture allow flexible card configurations, while fixed switches provide high-performance access and aggregation solutions.
- o Automation and Intelligence: Integration with iMaster NCE-Fabric, Huawei's network automation platform, enables automated operations across overlay and underlay networks and supports third-party DevOps tools via open APIs.
- o Virtualization: CloudEngine switches support Virtual System (VS) technology, allowing a single switch to be virtualized into up to 16 logical switches, facilitating multi-tenant or multi-service area management.
- o Energy Efficiency: Designed with multiple energy-saving technologies, these switches reduce power consumption while maintaining high performance.
- o Low Latency and High Reliability: Ideal for all-flash storage data centers and high-performance computing, ensuring minimal latency and robust service continuity.

Notable Series

- o CloudEngine 12800: Next-generation core switch with 178/1,032 Tbit/s switching capacity, supporting massive line-speed interfaces and virtualization for multi-tenant environments.
- o CloudEngine 8800: High-performance Ethernet switches for data centers and high-end campus networks, offering flexible 1GE-400GE port configurations.
- o CloudEngine 6800: Intelligent 10/25GE access switches with high uplink density (100GE/200GE), optimized for energy efficiency and simplified O&M.
- o CloudEngine 5800: GE access switches supporting 10/25GE upstream transmission, suitable for smaller data center or campus deployments.



Huawei Data Core Switch

Applications

Huawei Data Core Switches are widely deployed in finance, Internet, retail, education, manufacturing, and public services, supporting cloud computing, Big Data, and virtualization initiatives . They enable software-defined networking (SDN) evolution, multi-cloud integration, and intelligent operations, making networks simpler, smarter, open, and secure . These switches are ideal for enterprises seeking high-performance, scalable, and energy-efficient solutions to meet the demands of modern data centers and high-end campus networks.

Huawei's CloudEngine S8800 Series sets a new benchmark for Data Center Core Switches, bringing dense 100/200/400GE

Router-switch.com offers huawei CloudEngine, Campus and smb ethernet switches, provide high-availability, high-performance

Huawei campus switches offer high-performance, secure, and reliable switching for enterprises,

Today Huawei unveiled the industry's first data center switch built for the Artificial Intelligence (AI) era -- CloudEngine

Data Center Switches CloudEngine Data Center Switches -- Ethernet switches widely used in diverse applications and in different

Product Overview The CloudEngine 12800 (CE12800) series switches are next-generation, high-performance core switches

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

Directory of software & firmware for Huawei products of Enterprise Networking, IT, Unified Communications and Collaboration,

Thunder link offers various models of Huawei Ethernet switches and network switches, including the S5720, S6720, S6730, CE6800

Huawei CloudEngine 12800 series switches are next-generation, high-performance core switches designed for data centers and high

Huawei Switch Product List Campus Switches Huawei campus switches are ideal for enterprises, government,

education, finance,

Huawei CloudEngine S5731-S series standard gigabit access switches provide full-gigabit electrical ports

SX7 switches contain S1700, S2700, S3700, S5700, S6700 sub-series. Questions What is the meaning of each

Huawei S6730-H V2 series switches provide high-speed wireless access for enterprise campuses, education institutions, and

Huawei defines three data center switch characteristics in the AI era: Embedded AI chip, 48-port 400 GE

Ethernet-Switches von Huawei liefern Ihrem Unternehmensnetzwerk eine hohe Leistung, hohe Verfügbarkeit für resiliente Services

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