

Core Switch Layer 4 Huawei



Article Overview

Huawei core switches, such as the CloudEngine S6750-H and S16700 series, support Layer 4 functions including advanced routing, traffic management, and high-performance campus network deployment.

Overview of Huawei Core Switches

Huawei core switches are designed for high-performance, high-reliability campus and data center networks. They serve as the central gateway for wired and wireless users, handling large volumes of traffic while providing Layer 4 services such as TCP/UDP port-based routing, QoS, and traffic classification. These switches also support Layer 2 and Layer 3 functions, enabling seamless integration of VLANs, inter-VLAN routing, and DHCP services for both wired and wireless clients.

Key Features

- **High Port Density and Bandwidth:** For example, the CloudEngine S6750-H series offers $48 \times 10\text{GE}$ downlink ports and $8 \times 100\text{GE}$ uplink ports, suitable for core or aggregation layers. The S16700 series provides extremely high forwarding capacity of up to 14.4 Tbit/s per slot.
- **Redundancy and Reliability:** Redundant power and fan modules, along with M-LAG (Multi-chassis Link Aggregation Group) technology, ensure 99.9999% network reliability.
- **Advanced Layer 4 Capabilities:** These include traffic classification, QoS policies, firewall interconnection, VPN instance isolation, and OSPF routing. Layer 4 features allow the switches to manage traffic based on TCP/UDP ports, enabling fine-grained...

Article Content

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CloudEngine 12800 Series High-Performance Core Switches

Product Overview The CloudEngine 12800 series switches (CE12800 for short) are high-performance core switches designed for

Jun 04, 2026

CloudEngine 12800 Series Data Center Switches

CloudEngine 12800 Series Data Center Switches Huawei CloudEngine 12800 series switches are next-generation, high-performance

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CloudEngine 6800 Series Data Center Switches

On a typical campus network, two CE12800/CE8800/CE7800 switches are virtualized into a logical core switch using CSS or iStack

Oct 20, 2025

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

Native AC Solution: Core Switches Function as the Gateway for Wired and Wireless Users (Three-Layer Network Architecture)

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Huawei Ethernet Switch & Network Switches Solutions

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

Oct 24, 2025

Switches

Switches After more than 20 years of unremitting efforts and stable development, Huawei provides extensive experience in Ethernet

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Huawei CloudEngine S8700 Core Switches | Modular Chassis Switch

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

Feb 07, 2026

S12700E-4 Switch S12700E price and specs S12700E

Under building an intelligent campus core, this feature-rich switch can assist customers head towards a

Oct 31, 2025

Netzwerk-Switches von Huawei

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

Sep 04, 2025

CloudEngine S12700H Series Switches

CloudEngine S12700H series switches are Huawei's next-generation modular core/aggregation switches designed for high-end

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Huawei Ethernet Switches

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

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Configuring the Core Switch to Be Managed by the Controller

Currently, iMaster NCE-Campus mainly manages devices from the access layer to the core layer. To manage a core

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CloudEngine S5755-H Series High-Quality Multi-GE Switches | Huawei ...

CloudEngine S5755-H series high-quality multi-rate switches are Huawei's next-generation high-end access switches designed for

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CloudEngine Series Data Center Switches

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

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Data Center Switches

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

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CloudEngine 16800 Series Switches | Huawei Enterprise

CloudEngine 16800 data center switches are built for the intelligent era, offering large capacity and intelligent O& M, powered by an

May 07, 2026

Network Switches | Huawei Enterprise

Huawei campus switches are ideal for building future-proof campus networks with simplified management,

Feb 09, 2026

CloudEngine 12800 Series Data Center Core Switches

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

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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

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Switches-H3C

Based on the industry-leading 400 G platform, H3C S12500R supports a maximum 48-port 400 G forwarding performance in a single

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Layer 2 vs Layer 3 Huawei Switches Deep Dive: Internal ASIC

To objectively evaluate the capabilities of Huawei Layer 2 and Layer 3 switches, we must analyze specific hardware metrics. The

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Huawei CloudEngine S16700 Series Flagship Core Switches Datasheet

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

Mar 10, 2026

CloudEngine S8700 Series Switches | Huawei Enterprise

Huawei CloudEngine S8700 series switches are high-end switches designed by Huawei for next-generation enterprise networks.

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Campus Switches | Huawei Enterprise

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

Dec 20, 2025

CloudEngine S5736-S Series Switches | Huawei

CloudEngine S5736-S Series are switches designed for the Wi-Fi 6 era, featuring 24 downlink ports, four

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CloudEngine S16700 Series Switches | Huawei Enterprise

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

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S1700 Series Switches

Huawei S1700 series enterprise switches provide energy-saving Fast Ethernet access for small businesses and branch locations.

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Huawei S6700 Series Switches Product Brochure

The S6700 has industry-leading performance and provides up to 24 or 48 line-speed 10GE ports. It can be used in a data center to

Apr 03, 2026

Huawei Core Switch: Network's Beating Heart? Can Centralized

Every enterprise network has a silent dictator—the Huawei core switch. Buried in server rooms or data centers, this unassuming

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Switches der Serie CloudEngine S16700 von Huawei

Die Switches der Serie CloudEngine S16700 sind Core-Switches der neuesten Generation, entwickelt für 10 Gbps High-Quality

Jan 02, 2026

Huawei ICNMaster MDAF Enables Core Networks to Advance

As we look further into 2026, Huawei's ICNMaster MDAF will continue to innovate and lead the industry. A new AN L4 solution will be

Dec 02, 2025

Huawei CloudEngine 12800 Switch Datasheet

Product Overview The CloudEngine 12800 series switches are next-generation, high-performance core switches designed for data

Contact Us

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