

Huawei Core Switch Technical Parameters



AI Overview

Huawei CloudEngine S16700 series core switches offer ultra-high performance with up to 14.4 Tbit/s per slot, massive port density, and carrier-class reliability for campus and data center networks.

Key Technical Specifications

Models and Slots S16700 series includes models with 4 or 8 Line Processing Unit (LPU) slots, supporting flexible expansion and high-density deployments.

Port Density and Types Supports 10GE, 40GE, 100GE, 200GE, and 400GE full-rate access ports, enabling massive terminal access and high-speed aggregation.

S6700 series provides 24 or 48 line-speed 10GE ports, suitable for core or aggregation roles in campus networks.

Forwarding and Switching Capacity Forwarding capability: up to 14.4 Tbit/s per slot for S16700. Supports high-performance packet switching and ultra-fast forwarding for large-scale campus networks.

Redundancy and Reliability Main Processing Units (MPUs), power modules, and fan modules adopt a redundancy design for carrier-class reliability. S16700 series achieves 99.9999% reliability with Multichassis Link Aggregation Group (M-LAG) technology.

S6700 series supports dual power supplies and fan redundancy, enhancing MTBF and network resilience.

Advanced Features Programmable chips allow user-defined forwarding processes, enabling flexible service rollout without hardware replacement.

VXLAN support for network virtualization and free mobility.

Quality of Service (QoS), Packet Conservation Algorithm for Internet (iPCA), and one-click service deployment for simplified management.

Native AC function for wired and wireless convergence, DHCP server capabilities, and VLAN management.

Scalability and Network Evolution Fabric Units (SFUs) improve system bandwidth and support smooth network evolution.

Supports stacking, uplink/downlink Eth-Trunk interfaces, and multiple equal-cost routes for redundancy and scalability.

Applications Ideal for cloud campus networks, enterprise data centers, and high-end campus aggregation.

Supports digi...

Article Content

CloudEngine 7800 Series Data Center Switches

Product Overview Huawei CloudEngine 7800 series (CE7800) switches are next-generation 40G Ethernet switches designed for data centers and high-end campus networks. The switches provide

Huawei CloudEngine S8700 Core Switches | Modular Chassis Switch

The Huawei CloudEngine S8700 Series sets a new standard for modular core switching—featuring up to 16Tbps throughput, full MACsec encryption, integrated VXLAN gateway,

2025 Core Switch Selection Guide: Avoiding Pitfalls & Model ...

This article provides an in-depth guide to core switch selection, recommending models like the Huawei S6730 Series for businesses of varying sizes (50/500 employees).

Network Switches | Huawei Enterprise

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

CloudEngine Series Data Center Switches

Huawei CloudEngine (CE) series switches are high-performance cloud switches designed for next-generation data centers and high-end campus networks. The series includes Huawei's flagship

CloudEngine 12800 Series High-Performance Core Switches

CE12800 series switches use advanced hardware architecture design and have the highest performance of any currently available core switches. The CE12800 provides as much as 64 Tbit/s switching

Campus Switches | Huawei Enterprise

Huawei campus switches offer high-performance, secure, and reliable switching for enterprises, governments, finance and manufacturing networks. Learn more.

Huawei CloudEngine S16700 Series Flagship Core Switches Datasheet

modular core switches designed for high-end campus networks. They are designed to. secure and trustworthy campus networks. end campus networks in the fully-wireless era. S16700 series switches

Huawei CloudEngine S16700 Series Flagship Core Switches Datasheet

Product Overview Huawei CloudEngine S16700 series switches (S16700 for short) are next-generation modular core switches designed for high-end campus networks in the fully-wireless era. S16700

All Products and Solutions

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

Huawei CloudEngine S6750-H Series 100GE Switches Datasheet

CloudEngine S6750-H series 100GE switches are next-generation enterprise-class core switches that offer high performance, high reliability, cloud management, and intelligent operations and

Huawei S6700 Series Switches Product Brochure

To provide sufficient bandwidth for users, many servers, particularly those in data centers, use 10G network adapters. The S6700 can be used in data centers to provide high forwarding performance

Huawei S5720H Series Switch: Gigabit Core & PoE+ Campus Switches

The Huawei S5720H series represents a powerful line of gigabit switches designed for enterprise campus core and distribution networks. Based on Huawei's VRP V200 operating system,

CloudEngine S12700E Series Switches Datasheet-V2R21C00

CloudEngine S12700E Series Switches Datasheet Huawei CloudEngine S12700E series switches are new core switches designed for next-generation high-quality campus networks. These purpose-built

CE6870-48S6CQ-EI

This document provides an overall description of the CE5800& 6800& 7800& 8800 series switches hardware that versions earlier than V200R020C00, helping you obtain detailed information about

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

Huawei CloudEngine S16700 Series Flagship Core Switches Datasheet

Huawei CloudEngine S16700 Series Flagship Core Switches Datasheet Download (1.4MB)

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Huawei offers a wide range of products documents and networking solutions designed for enterprises, customers, partners and community users.

CloudEngine 12800 Series Data Center Core Switches

The CE12800 series switches use an industry-leading Clos architecture and provide industrial-grade reliability. The switches support comprehensive virtualization capabilities along with data center

CloudEngine S16700 Series Switches

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

CloudEngine S12700E Series Switches | Huawei

CloudEngine S12700E Series Switches CloudEngine S12700E enables wired and wireless convergence, full-stack openness, and smooth upgrades at the core

Switches

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

Data Center Switches

Data Center Switches CloudEngine Data Center Switches — Ethernet switches widely used in diverse applications and in different network sizes, in both data centers and high-end campus networks —

Contact Us

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