Huawei s single-core switch with multiple exits



Overview

S Series Switches Stack Deployment Best Practices For the S series switches, multiple fixed switches can set up a logical device called stack, and two modu.

Key Takeaways

Huawei's S6700, S5735-L-V2, and S3700 series switches can function as single-core switches with multiple uplinks, supporting high-performance Layer 3 routing, stacking, and redundant exit paths. Core Switch CapabilitiesHuawei's S6700 series is designed for high-performance core or aggregation roles in campus networks and data centers. Each S6700 switch provides up to 48 line-speed 10GE ports, supporting both 1GE and 10GE access.

It offers high switching capacity, large buffering, and advanced buffer scheduling to ensure non-blocking transmission even under heavy traffic loads. The S6700 supports multiple uplinks, enabling redundant exit paths and load balancing for high availability and network resilience.

The Cloud

Engine S5735-L-V2 series provides 8/10/16/24/48 GE downlink ports and 4 GE or 10GE uplink ports, along with 2 x 12GE dedicated stack ports. These switches support iStack technology, allowing multiple switches to operate as a single logical unit with a single management IP, effectively creating multiple exit paths and improving redundancy. They also implement Ethernet Ring Protection Switching (ERPS) for millisecond-level protection switching.

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The S3700 series offers Layer 3 routing, stacking (iStack), and multiple uplink options, making it suitable for core or aggregation deployment in enterprise networks. It supports enhanced Ethernet reliability technologies such as RRPP and Smart Link, which provide load balancing and millisecond-level failover across multiple exit paths. The iStack function allows multiple switches to be connected with stack cables, expanding system capacity while maintaining a single management interface.

Key Features for Multiple Exits

Stacking (iStack): Multiple switches can be combined into a single logical switch, providing multiple exit paths and simplified management. Redundant Uplinks: Core switches support multiple uplinks to aggregation or data center layers, ensuring high availability and load balancing. Layer 3 Routing: Supports OSPF, IS-IS, BGP, and static routing for flexible traffic distribution across multiple exits.

High Availability: Technologies like ERPS, RRPP, and Smart Link provide millisecond-level failover and redundancy.

Security and Qo

S: Comprehensive security policies and QoS features ensure reliable and secure traffic forwarding across multiple exit paths.

Deployment Scenarios

These switches are ideal for: Enterprise campus networks where a single-core switch aggregates multiple access switches. Data centers requiring high-speed 10GE access and multiple uplinks for redundancy. Scalable networks where stacking allows expansion without additional management complexity.

Huawei's single-core switches with multiple exits provide flexible, high-performance, and resilient network solutions, combining stacking, multiple uplinks, Layer 3 routing, and advanced redundancy technologies to meet enterprise and data center requirements.

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Article Content

S Series Switches Stack Deployment Best Practices

For the S series switches, multiple fixed switches can set up a logical device called stack, and two modular switches can set up a logical device called cluster.

Network Switches | Huawei Enterprise

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

S SERIES SWITCHES STACK DEPLOYMENT BEST PRACTICES

After the stack finishes startup, the switch with stack ID 1 becomes the master switch, the switch with stack ID 2 becomes the standby switch, and the switch with stack ID 3 becomes the slave switch.

S5700-LI Switch Datasheet (Detailed Version)

The S5700-LI is a next-generation energy-saving gigabit Ethernet switch that provides flexible GE access ports and 10GE uplink ports.

HUAWEI eKitEngine S630 Series Switches Datasheet

HUAWEI eKitEngine S630 Series Switches are enhanced fully-managed 10GE switch designed for the small and medium-sized business (SMB) market. It provides a variety of ports, such as 10GE optical,

Huawei S6700 Series Switches Product Brochure

The S6700 series switches (S6700s) are next-generation 10G box switches. The S6700 can function as an access switch in an Internet data center (IDC) or a core switch on a campus network.

How to Master Huawei Switch Stacking: Best Practices and ...

Huawei''s stacking technology (e.g., iStack and CSS) allows multiple physical switches to operate as a single logical device. However, improper configuration or oversight can lead to instability.

Buy Huawei S6735-S48X6C 40G/100G Switch Price at thunder-link

The S6700 can function as an access switch in an Internet data center (IDC) or a core switch on a campus network. The S6700 has industry-leading performance and provides line-speed 10GE

Huawei S Series Quick Configuration

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Small-Sized Campus Networks This section uses the S2750 as an access switch (ACC1), S5700 as a core switch (CORE), and an AR series router as an egress router (Router) as examples to

Huawei 48-Port PoE Switch Buying Guide 2026

Compare Huawei CloudEngine S5731/S5735 specs, 2026 pricing, PoE power budgets (e.g., 740W), and verified suppliers for 48-port models.

Huawei Ethernet Switches

Router-switch offers huawei CloudEngine, Campus and smb ethernet switches, provide high-availability, high-performance networking for large-scale data centers, ISPs, and enterprise IT networks.

Huawei Ethernet Switch & Network Switches Solutions

Thunder link offers various models of Huawei Ethernet switches and network switches, including the S5720, S6720, S6730, CE6800 and CE12800, designed for data centers and campus networks.

S Series Switches Stack Deployment Best Practices

Information on user device interfaces shall prevail. Differences will not be described in the document. For the S series switches, multiple fixed switches can set up a logical device called stack, and two

CloudEngine S12700E Series Switches

Huawei CloudEngine S12700E series switches deliver high performance, unmatched security and reliability at the core of high-end campus networks. Learn more!

S SERIES SWITCHES STACK DEPLOYMENT BEST PRACTICES

Figure 1-7 Connecting the uplink ports on the switch panel with multiple cables – If switches do not support cards but downlink ports on the switch panel can be used as stack ports, these downlink

S Series Campus Switches Quick Configuration (V200)

This document describes how to log in Huawei S series switches for the first time and fast configure the switches, and describes the procedures of configuring unconfigured switches in three

CloudEngine S5736-S Series Switches | Huawei

CloudEngine S5736-S Series are switches designed for the Wi-Fi 6 era, featuring 24 downlink ports, four 10 GE uplink ports and one extended slot. Learn more.

Ethernet Switches

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

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