

Detailed Explanation of Huawei Switch Optical Port Stacking



Article Overview

Huawei switches can be stacked using optical ports by configuring dedicated service ports as stack ports, connecting them in a ring or chain topology, and assigning member IDs and priorities before activating the stack.

Overview of Optical Port Stacking

Huawei switch stacking allows multiple physical switches to operate as a single logical device, simplifying management, increasing redundancy, and scaling bandwidth. Optical ports, such as SFP+ or QSFP modules, can be used as stacking ports to carry both control and data traffic between stack members ().

Stack Topologies

- Ring Topology: Recommended for redundancy; switches are connected in a closed loop, providing dual-link paths to prevent single points of failure ().
- Chain Topology: Simpler but less resilient; a single link failure can disrupt the stack ().

Pre-Configuration Checklist

- Verify switch support: Ensure the switch model supports stacking and optical port stacking (e.g., S5700, S6700 series) ().
- Firmware consistency: All stack members should run the same VRP version.
- Stack cables: Use certified optical stack cables (e.g., Huawei QSFP-40G-Stack) an...

Article Content

Mar 16, 2026

S Series Switches Stack Deployment Best Practices

S Series Switches Stack Deployment Best Practices This document describes the best practices for stack deployment, including

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Checking Whether Stack Cables Are Correctly Connected

Modular switch CSS card clustering SRUAs and SRUBs use VSTSA stack cards and dedicated cluster cables and must follow CSS

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Huawei S-Series Switch Stacking Demonstration

This test uses two identical Huawei S-Series switches for stacking (a maximum of 9 switches can be stacked). Table 1

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Installing Stack Cables and Powering On the Switch

Installing Stack Cables and Powering On the Switch Preparing for Installation Ensure that the following components and tools are

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01-03 STACK CONFIGURATION

Service port stacking allows member switches to be connected using service ports, without requiring dedicated stack cards. These

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Which Cables Can Be Used for Stack Connections?

10GE optical ports can be used for stack connections only when they have 10GE optical modules installed. They

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FAQ About Stacks

Increases the number of ports. When the port density of a switch is insufficient for an increasing number of access users, you can

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S5710-X-LI Service Port Stacking Support

For stacking-supported service ports, some of them can be used as stack ports, whereas some can be used as ordinary service

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Example for Setting Up a Stack Using Service Ports (V200R003 and

To improve stack efficiency and reduce manual configuration, since V200R011C10, switches can set up a stack using

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S6720HI Service Port Stacking Support

The first 12 10GE ports of the S6720-50L-HI-48S cannot be used as stack member ports. S6720HI series switches of all versions can

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Huawei S Series Switches Stack Guide—Version and Model

Switches can set up a stack through stack card connection and service port connection based on stack port types.

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Stack Deployment Method and Recommendations

Scenario 1: The Stack System Operates on Aggregation Switches This is the most common scenario when aggregation switches set

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Stack Configuration

Stack Configuration This chapter describes how to set up a stack of multiple switches to improve forwarding performance and reliability.

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S5731-S and S5731S-S Service Port Stacking Support

S5731-S and S5731S-S series switches of all versions can set up stacks in service port stacking mode using dedicated stack cables.

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Huawei S Series Switches Stack Guide—Version and Model

As we know, switch stacking deployment has some special requirement or limitation, this blog will share the software

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

Switch stacking is a cornerstone of modern network design, enabling simplified management, improved redundancy,

Jun 26, 2026

S Series Switches Stack Deployment Best Practices

This document describes the best practices for stack deployment, including device selection, deployment, networking deployment,

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Campus Network Feature-Level Deployment Best Practices

Select stack cables before connecting them. For details about the stack cables that apply to different ports on different switch

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

Mastering Huawei switch stacking requires meticulous planning, adherence to best practices, and proactive

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S5732-H Service Port Stacking Support

A switch supports a maximum of two logical stack ports. For stacking-supported service ports, some of them can be used as stack

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01-03 STACK CONFIGURATION

Corridor switches in a building are connected using stack cables to form a stack. In this way, each building has only one virtual

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Huawei Box Switch iStack Stacking Function Configuration

Huawei's iStack can achieve automatic stacking through cables. Plug in the stacking cable, and gradually power on

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S5700HI, S5710HI, and S5720HI Service Port Stacking Support

For stacking-supported service ports, some of them can be used as stack ports, whereas some can be used as ordinary service

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What Ports Can Be Used to Set Up a Stack Among CE Series Switches ...

Which CE Series Switches Support Stack and How Many Member Switches Does a Stack Contain at Most? What Ports Can Be

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Stack Connection Modes

Stack Connection Modes Stack member switches must be directly connected. Switches can set up a stack through stack card

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Determining the Stack Connection Support and Mode

For stacking-supported service ports, some of them can be used as stack ports, whereas some can be used as ordinary service

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S6730-H and S6730S-H Service Port Stacking Support

A switch supports a maximum of two logical stack ports. For stacking-supported service ports, some of them can be used as stack

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Establishing a Stack Using Dedicated Stack Cables

Installation Procedure Stack member switches can set up a stack in a chain or ring topology through service port connections. Figure

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S2700 Service Port Stacking Support

Since V200R011C10, S2720EI and S2750EI series switches can set up stacks in service port stacking mode using dedicated stack

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What Is Stacking? Why Do We Need Stacking?

What Is Stacking? Stacking is a technology that connects multiple switches through stack cables to form a logical switch

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Huawei Switch Stacking (iStack) and Cluster (CSS) Conf | BestHub

This guide explains Huawei's iStack and CSS technologies for stacking low-end and high-end switches, covering

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What Is Huawei iStack? A Complete Guide to S6730-H Switch

This article explains how stacking works on Huawei S6730-H Series Switches, and why it is widely used in campus and aggregation

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S6730-S and S6730S-S Service Port Stacking Support

For the cables that can be used as stack cables, see "Cables" in the Hardware Description. Using other cables may cause

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Huawei S-Series Switch Stacking Demonstration

Switch stacking combines multiple switches into a single logical device for unified data forwarding, which expands port

Contact Us

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