

Detailed Explanation of Huawei Core Switch Ports



AI Overview

Huawei core switch ports support access, trunk, and hybrid configurations with high-speed GE, 10GE, 25GE, 40GE, and 100GE options, enabling flexible, secure, and high-performance network deployment.

Port Types and Functions

- 1. Access Ports** Access ports connect end devices like PCs or servers to the network. They carry traffic for a single VLAN and are typically untagged. On Huawei switches, an access port is configured with a specific VLAN using commands such as `port link-type access` and `port default vlan`. Access ports are ideal for edge connections where devices do not need to participate in multiple VLANs.
- 2. Trunk Ports** Trunk ports carry traffic for multiple VLANs simultaneously, tagging each frame with its VLAN ID. They are used to interconnect switches or connect to routers that handle multiple VLANs. Huawei trunk ports are configured with `port link-type trunk` and `port trunk allow-pass vlan`. Trunk ports are essential for core and aggregation layers to maintain VLAN separation across the network.
- 3. Hybrid Ports** Hybrid ports combine access and trunk functionalities. They can carry multiple VLANs with tags while allowing one VLAN to remain untagged. This is useful for connecting devices that need access to multiple VLANs without requiring full trunking. Hybrid ports are configured using `port link-type hybrid` and specifying tagged and untagged VLANs.

High-Speed Port Capabilities

Huawei core switches, such as the CloudEngine S12700H and S6700 series, provide ultra-high-density ports to meet modern network demands:

- GE (Gigabit Ethernet) for standard connectivity
- 10GE and 25GE for server and aggregation links
- 40GE and 100GE for high-capacity uplinks and core interconnections

These ports support full-rate access, ensuring high throughput and low latency for data center and campus networks.

Security and Traffic Management

Huawei core swi...

Article Content

Configuring ports on Huawei switches

I will give an example of setting up ports on Huawei switches. For the test, I will execute commands on the Huawei Quidway S2326TP-EI. After we connect to the switch, go to the

Access port config (Huawei)

An access port belongs to and carries the traffic of only one VLAN within 2-layer switch. Traffic is both received and sent in native formats with no VLAN tagging whatsoever.

Huawei CloudEngine S8700 Core Switches | Modular

Explore Huawei CloudEngine S8700 modular chassis switches, designed for enterprise cores and data centers, these switches deliver up to 16

Configuring access, trunk, and hybrid ports on Huawei switches and ...

The physical layer uses what medium to transmit, and the data link layer converts the line between the two underlying switching devices into a logical transmission line to provide point-to-point

Huawei S6700 Series Switches Product Brochure

Huawei S6700 Series Switches Product Brochure Product Overview The S6700 series switches (S6700s) are next-generation 10G box switches. The S6700 can function as an access switch in an

HUAWEI SWITCH BASIC CONFIGURATIONS WITH EXAMPLE(5

Access port config: An access port belongs to and carries the traffic of only one VLAN within 2-layer switch. Traffic is both received and sent in native formats with no VLAN tagging

SME Network Solution Typical Configuration Examples

"Gateway + Core Switch + Aggregation Switch + Access Switch + WAC + AP + AR180" Networking: Local Entire Network Deployment (EasyWeb) "Third-Party Gateway + Core Switch + Access Switch

Switches

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

Why Is the Huawei CloudEngine 12800 Core Switch a Game

In today's hyper-connected digital landscape, the backbone of any enterprise network relies on one critical component: the core switch. The Huawei CloudEngine 12800 Core Switch isn't just another

Huawei eNSP Experiment: Detailed Explanation of Switch Stacking ...

Huawei eNSP Experiment: Detailed Explanation of Switch Stacking Configuration Technology 1. Theoretical Foundation of Stacking Technology 1.1 Analysis of Stacking System

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

Aggregation switches set up stacks to implement device-level backup and increase the interface density and forwarding bandwidth. In this example, a CSS of core switches functions as the gateway for

9 Query Commands for Huawei Switches

With its excellent performance and rich functions, Huawei switches have become one of the preferred devices for many enterprise networks. This

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 S8700 Core Switches | Modular Chassis Switch

With chassis models like S8700-04, S8700-06, and S8700-10, this series delivers unparalleled bandwidth (up to 16 Tbps), deep virtualization support, MACsec, silicon-based TCP

Huawei S5330-HI Series Switches Product Brochure

Huawei S5330-HI Series Switches Product Huawei S5330-HI gigabit ethernet switches are Huawei-developed next-generation agile switches that provide fixed full gigabit access and 10GE uplink

Huawei Enterprise Support Community

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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 device governs traffic flow between departments, cloud platforms, and

Configuring Port Split for a Switch

Configuring Port Split for a Switch Context The port split function allows a high-bandwidth physical port on a switch to be configured as multiple independent low-bandwidth ports, improving

How to Enable Ports in Huawei Switch? Could Open Ports Unlock

This guide dives into the step-by-step process of port configuration on Huawei switches, while addressing the often-overlooked question: Does opening ports inadvertently create backdoors

Huawei Switch Configuration Guide

The document provides detailed steps and examples for completing common switch configuration tasks.

S1700, S2700, S3700, S5700, and S6700 Box Switches Products ...

It can function as an access switch in an Internet data center (IDC) or a core switch on a campus network. The S6700 has an industry-leading performance and provides up to 24 or 48 line

Master the Basic Command Configurations of Huawei,

As technology advances, networking switches have become an integral part of the IT infrastructure. They play a crucial role in directing

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.

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

CloudEngine Series Data Center Switches

Huawei CloudEngine series switches are high-performance cloud switches designed for next-generation data centers and high-end campus networks. The series

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 —

CloudEngine S12700H Series Switches

CloudEngine S12700H series switches come in two models, which offer four and eight LPU slots, respectively. They provide ultra-high-density GE, 10GE, 25GE, 40GE, and 100GE full-rate access

How Do I Check the Interface or Port Status?

Checking Service Interface Indicators to Determine the Interface Status Observe service interface indicators to quickly identify the service interface status. The following uses the S6730-H48X6C as

Huawei CloudEngine 8800 Switch Datasheet

Product Overview Huawei CloudEngine 8800 series switches are 100G Ethernet switches designed for data centers and high-end campus networks. The switches provide high-performance, high-density

Contact Us

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