Huawei Core Switch Layer 3 Machine



Overview

The S3700 series enterprise switches (S3700s) are next-generation energy-saving Layer 3 switches. The S3700 utilizes cutting-edge hardware and Huawei Versatile Routing Platform (VRP) software to provide high-performance access and aggregation to an enterprise campus network. This document describes the configuration of Ethernet services, including configuring MAC address table, link aggregation, M-LAG, VLAN, QinQ, VLAN mapping, GVRP, STP/RSTP, MSTP, VBST, ERPS (G. 8032), LBDT, and Layer 2 protocol transparent transmission. Switches cannot replace routers in all scenarios because routers provide rich. Over the past year, enterprise network deployments have increasingly favored integrated Layer 3 switching over traditional router–switch separation — especially in campus, SME, and edge data center environments. Huawei's S57xx, S67xx, and CloudEngine series now dominate mid-tier procurement lists. Huawei core switch offers robust real-world performance in enterprise upgrades, delivering enhanced Layer 3 routing, superior PoE++, modular scalability, and stable integration with multi-vendor infrastructures.

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Article Content

Layer 3 Switching

In a summary, a Layer 3 switch provides high-speed Layer 3 switching through one routing process (forwarding the first packet to the CPU and creating a hardware Layer 3 forwarding entry) and

Huawei Layer 3 Switch Guide: How to Choose the Right One

A practical, no-fluff guide to selecting a Huawei Layer 3 switch—covering models, configuration essentials, real-world trade-offs, and when you actually need routing intelligence.

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

This deep technical review dissects the internal ASIC forwarding logic, packet processing pipelines, and specific performance metrics to provide a comprehensive analysis of Huawei ...

L3 Switch Huawei? How Does Enterprise Network Reliability Redefine

So, what tangible edge does a proper L3 switch Huawei setup bring to reliability? Unlike basic Layer 2 switches that merely shuttle frames between ports, Huawei''s L3 ...

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

Core Architecture & Switching Logic: ASIC, CPU, and the Forwarding Pipeline The fundamental difference between Layer 2 and Layer 3 switching in Huawei equipment lies ...

Huawei Core Layer 3 Switch – Real-World Performance in Enterprise ...

Huawei core switch offers robust real-world performance in enterprise upgrades, delivering enhanced Layer 3 routing, superior PoE++, modular scalability, and stable integration with multi-vendor

Huawei''s L3 Switch: Packet Power Unveiled? Can It Turbocharge

Wrapping up, Huawei''s L3 switch isn''t just another piece of kit—it''s a game-changer for any business relying on robust networking. By delving deep into how packet flows are ...

Huawei S6730-h24x6c Core Switch 24 Ports 10ge Sfp

Huawei CloudEngine Swtich S6730-H24X6C (02353FSG/-001/-005/-007) Huawei

Huawei S3700 Series Switches Product Datasheet

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Example for Configuring a Layer 3 Switch to Work with a Firewall for ...

Example for Configuring a Layer 3 Switch to Work with a Firewall for Internet Access Layer 3 Switch Layer 3 switches provide the routing function, which indicates a network-layer function in the OSI

Why Is the Huawei L3 Switch Your Network''s Missing Link? Can Layer 3 ...

Enter the Huawei L3 Switch, a device that goes beyond basic data routing to become the brain of your network. Layer 3 switches aren''t just about moving packets—they''re about making decisions. They

Switching an Interface to Layer 3 Mode

Switch an interface to Layer 3 mode on Huawei devices with this technical guide for seamless network configuration and management.

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 —

Example for Configuring a Layer 3 Switch to Work with a Router for ...

Layer 3 Switch Layer 3 switches provide the routing function, which indicates a network-layer function in the OSI model. Layer 3 switches can work at Layer 2 and Layer 3 and be deployed

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) Networking Requirements Core switches set up a CSS that functions as the

Example for Configuring a Layer 3 Switch to Work with a Router for ...

In Figure 2-44, a company has multiple departments that belong to different network segments, and each department needs to access the Internet. It is required that users access the Internet through

Layer 3 Switching

Layer 3 Switching Background of Layer 3 Switches In early stage of network deployment, most local area networks (LANs) were established using Layer 2 switches, and routers completed

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Deploying an S Series Switch as a Layer 3 Switch on a LAN

8. Connecting an S Series Switch Acting as a Layer 2 Switch to a Firewall

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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