

# Huawei converged Layer 3 switch



## AI Overview

Huawei Layer 3 Core Switches deliver high-performance routing, scalable connectivity, and advanced network intelligence for enterprise and campus networks. Overview Huawei Layer 3 core switches are designed to handle high-speed routing and aggregation in enterprise, campus, and data center networks. They combine Layer 2 switching within VLANs and Layer 3 IP routing between VLANs, enabling efficient traffic management and network segmentation while supporting high-density connectivity and advanced services. Key Models and Features Huawei S6730-H Series High-density 10GE access with up to 48 10GE downlinks and 40/100GE uplinks, suitable for bandwidth-intensive applications like Wi-Fi 6, 4K/8K video, and virtualization. Layer 3 routing protocols: OSPF, BGP, RIPng, IS-IS, VRRP, and ECMP for robust network routing. VXLAN with BGP-EVPN: Supports multi-tenant segmentation and cloud-scale network designs. Integrated WLAN AC: Manages up to 1,024 APs and unifies wired-wireless policies. Intelligent O&M: Features iPCA, TWAMP, and CampusInsight for real-time telemetry, fault location, and QoE insights. High availability: Supports logical stacking, Ethernet ring protection (SEP/ERPS), and sub-50 ms fault recovery. Huawei S3700 Series Enterprise Layer 3 switch with flexible VLAN deployment and PoE capabilities. Routing and reliability: Supports VRRP, RRPP, and complex routing protocols in the EI version. Energy-efficient design: High integration chips, low power consumption, and fanless options. PoE support: IEEE 802.3af/at with dual power supply redundancy for high availability. Multicast support: IGMP snooping, fast leave, and multicast load balancing for IPTV and other services. Huawei Quidway S5352C-EI 48 Gigabit Ethernet ports with flexible uplink options: two 10GE XFP or four 1000Base-X SFP ports. Layer 3 routing capabilities: Advanced routing for efficient traffic management. High availability: Dual hot-swappable power modules for redundancy and maintenance ease. Enhanced security and QoS: Comp...

## Article Content

### Switches-H3C

Build a high-bandwidth, converged, intelligent, and trusted optical network platform. Support smooth evolution capability for the future. In recent years, the IoT has developed rapidly. For the

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

### Huawei CloudEngine S6750-H Series 25GE Switches Datasheet

Introduction Huawei CloudEngine S6750-H series 25GE switches are next-generation enterprise-class core and aggregation switches that offer high performance, high reliability, cloud management, and

Example for Switching an Interface to Layer 3 Mode

Example for Switching an Interface to Layer 3 Mode Networking Requirements As shown in Figure 3-15, PC1, PC2, PC3, and PC4 are on four network segments, and SwitchB, SwitchC,

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

10. Connecting an S Series Switch Acting as a Layer 3 Switch to a Firewall

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

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

### 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

VLAN Routing with Layer 3 Switch on Huawei \* IpCisco

VLAN Routing with Huawei Layer 3 Switches. Here we will focus How to Configure VLAN Routing on Huawei devices with a configuration example.

Step 1: Use Direct Connect or VPN to Communicate at Layer 3

An enterprise switch establishes a Layer 2 network based on a Layer 3 network between an on-premises data center and a VPC. This section describes how to create a Direct Connect or

L3 Switch Huawei? How Does Enterprise Network Reliability Redefine

Unlike basic Layer 2 switches that merely shuttle frames between ports, Huawei's L3 devices function like traffic command centers. They route data between subnets at wire ...

HUAWEI eKitEngine AR580 Series Converged Gateway Datasheet

Huawei eKitEngine AR580 series gateways can be deployed at the egress of the headquarters or branches of small- and medium-sized enterprises (SMEs). The series includes AR580, AR580 Plus,

Accelerate Industrial Intelligence

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HUAWEI S Series Switch-Configure a Layer 3 Switch on a LAN

Deploying a Layer 3 Switch on a LAN As shown in the figure Configuration Roadmap Configuration Roadmap Configuration Roadmap Configuration Procedure Configuration Procedure

Layer 3 Switching

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,

Huawei S3700 Series Switches Product Datasheet

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

Configuring Layer 3 Sub-interfaces to Implement Inter-VLAN ...

Before configuring Layer 3 sub-interfaces to implement inter-VLAN communication, you have completed the following tasks: Create VLANs. For details, see Creating and Deleting a VLAN.

Huawei 24-Port Switch Buying Guide

The Huawei Quidway 24-port switch market is characterized by a transition from legacy models like the S2300 and S3700 series toward high-performance, energy-efficient Gigabit and 10GbE solutions like

### 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

### Campus Switches

Huawei S Series Switches fully accommodate metro core, aggregation, edge aggregation, and access networking requirements, and are capable of building

### S5735S-H24T4X-A Switch for Huawei Enterprise Level 24 GE Ports 4

S5735S-H24T4X-A Brand Name HUAWEI Place of Origin Guangdong, China Structure 3-layer Product name Switch Equipment Function Stackable Dimensions (W x D x H) 442mmx220mmx43.6mm

### Network Switches | Huawei Enterprise

Huawei Ethernet Switches Turbocharge your enterprise network with high-performance, high-availability for resilient services and simplified management.

### 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

### CloudFabric 3.0 Hyper-Converged DCN | Huawei

Huawei's CloudFabric 3.0 Enables Three-Layer DCN Convergence To overcome the challenges that all-Ethernet adoption presents, Huawei launched

### Example for Switching an Interface to Layer 3 Mode

To enable SwitchA and SwitchB to communicate with each other and provide high link bandwidth, Layer 3 Eth-Trunk interfaces need to be used between SwitchA and SwitchB. In addition,

### Choose the Right Enterprise Switch in 2026: A

Confused about enterprise switch selection? This technical buyer's guide explains Layer 3, PoE, buffer, latency, and throughput for Huawei, Ruijie &

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

It is required that users access the Internet through the Layer 3 switch and router and that the Layer 3 switch function as the gateway of users. Figure 2-44 Configuring a Layer 3 switch to work with a

## Contact Us

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