

Core Switch with Layer 3 Management



Article Overview

A core switch with Layer 3 management is a high-capacity, high-performance switch that routes traffic at the network backbone while providing advanced management and redundancy features.

What is a Core Switch?

A core switch is positioned at the backbone of an enterprise network, aggregating traffic from distribution or aggregation switches and ensuring ultra-low latency and high throughput across the network . Unlike access switches, which connect end devices, core switches handle massive volumes of data and provide the central routing and switching functions necessary for a stable and scalable network . They are essential in networks with over 100 devices or in data centers requiring high-speed connectivity .

Layer 3 Management Features

Core switches with Layer 3 capabilities combine traditional switching with routing functions. They can:

- Route traffic between VLANs using IP addresses, reducing the need for separate routers .
- Implement redundancy protocols like VRRP or HSRP to maintain network uptime if a primary switch fails .
- Support link aggregation (LACP) to combine multiple ports for higher bandwidth and reliability .

Article Content

H3C S7500X Enterprise Core Switch Series

H3C S7500X switch series comes with IPv4/IPv6 dual-stack platform that provides sophisticated IPv4/IPv6 solutions by supporting

Managed Switches

A Layer 3 switch, or multilayer switch, performs both Layer 2 switching and Layer 3 routing using IP addresses. This allows it to route

What Is a Core Switch?

A core switch is the backbone of a large-scale network, designed to handle massive volumes of traffic with ultra-low latency and

L3 Switch for Advanced Networks | Omada by TP-Link

Standardize on stackable L3 switches across multiple client networks, using centralized Omada Controller management to configure

Adding a Core Switch with Layer 3

Yes, a layer 3 switch is much better at routing vlan traffic vs a firewall. Yes, you'll need to add routes to your local

wifi6 MESH Router|AirLive|Managed Switch|5G|Your best choice of

A layer-3 switch is smart enough to handle and manage the routing and traffic controlling of locally connected servers and end

Layer 3 Switch Example

Configuring the Switch Ports Additional Considerations Switch Management IP and Layer 3 Interfaces (SVIs) Related KBs This

Fixed Port L3 Managed Ethernet Switches

These powerful Layer 3 access switches are easy to deploy and manage with advanced security and network management tools like

Campus LAN Core and Distribution Switches

Cisco Catalyst and Meraki Campus LAN core and distribution switches are scalable, secure network switches with exceptional

All Switches Products

Cisco has a comprehensive portfolio of network switches and switching solutions for enterprise networks, data centers and small

Layer 3 Managed Switches

Moxa's Layer 3 managed switches feature industrial-grade reliability, multicast availability, and security enhancements based on the

Two-tier and three-tier switch architectures

Two-tier and three-tier switch architectures When structuring the logical architecture of an enterprise network, decisive factors

Contact Us

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