

48-port Layer 3 Core Switch



AI Overview

A 48-port Layer 3 switch is a high-capacity, managed network switch capable of routing, advanced traffic management, and often Power over Ethernet (PoE) for connected devices.

Overview A 48-port Layer 3 switch combines the high port density of a 48-port switch with Layer 3 routing capabilities, allowing it to handle both switching within VLANs and routing between VLANs or subnets. These switches are ideal for enterprise networks, campus environments, or large offices where multiple devices require high-speed connectivity and centralized management.

Key Features

- Port Density:** 48 Gigabit Ethernet ports provide ample connectivity for desktops, IP phones, wireless access points, and security cameras.
- Layer 3 Routing:** Supports IP routing, static routes, and dynamic routing protocols, enabling inter-VLAN communication without a separate router.
- PoE/PoE+ Support:** Many models, such as the Ubiquiti USW-Pro-48-PoE and Juniper EX4100-48P, provide PoE or PoE+ to power devices directly through Ethernet cables, simplifying deployment of access points and VoIP phones.
- High Availability:** Features like hot-swappable power supplies, modular uplinks, and stackable designs ensure minimal downtime and easy scalability.
- Advanced Security:** Support for MACsec encryption, microsegmentation, and group-based policies enhances network security and traffic control.
- Management:** Managed switches offer web interfaces, CLI, or cloud-based management platforms for monitoring, configuration, and troubleshooting.

Popular Models

- Cisco Meraki Catalyst 9300-48P:** Stackable, Layer 3, 48-port PoE+ switch with hot-swappable 10G/40G uplinks and advanced management features.
- Juniper EX4100-48P:** AI-driven, cloud-ready Layer 3 switch with PoE+, EVPN-VXLAN support, MACsec AES-256, and flow-based telemetry for campus networks.
- Ubiquiti USW-Pro-48-PoE:** 48-port Layer 3 switch with high-power PoE++ output, suitable for high-density deployments.

Use Cases

- Enterprise Networks:** Connect hundreds of devices while managing VLANs and...

Article Content

RG-CS85-48GT4XS-HPD 48-Port Gigabit PoE+ Layer-3 Rackmount Switch

48-port PoE+/PoE Layer-3 rackmount switch with 4×10G SFP+ uplinks, modular redundant PoE power and advanced L2/L3 features for campus networks.

layer 3 48 port switches | Newegg

Search Newegg for layer 3 48 port switches. Get fast shipping and top-rated customer service.

TP-Link S6500-48G6XF L3 Managed Switch 48 Port Gigabit 6 10G

The TP-Link S6500-48G6XF delivers high-density gigabit connectivity with six 10G SFP+ uplink slots for demanding enterprise environments. This Layer 3 managed switch supports advanced stacking and

48 Port Layer 3 Managed Switches

Explore a variety of 48-port Layer 3 managed switches from top brands like Cisco, Netgear, D-Link, TP-Link, Ubiquiti, Zyxel, Linksys, Dell, and HPE at Comms

Amazon : Layer 3 48 Port Managed Switch

1-16 of 257 results for "Layer 3 48 Port Managed Switch" Results Check each product page for other buying options.

48-Port Layer 3 Stackable Smart Managed Switch

Highlights The DGS-1520 Series, a new generation of Lite Layer 3 Stackable Smart Managed Switches, includes four 10 GB ports for uplink or stacking up to a total

Switch Enterprise Campus 48 PoE

Enterprise-grade 48-port, Layer 3 Etherlighting™ PoE+++ switch with high-capacity 10 GbE RJ45 and 25G SFP28 connections for high availability system design.

TP-Link S6500-48M6Y Managed Switch | 48-Port 10G Multi-Gigabit | 6-Port ...

This L3 managed switch provides high-density 10G multi-gigabit connectivity and 25G SFP28 uplinks for demanding enterprise environments. It features advanced routing capabilities and redundant power

Switch Pro Max 24 PoE

A 24-port, Layer 3 Etherlighting™ switch capable of high-power PoE++ output.

48-Port L3 PoE++ Switch, Ethernet Gigabit, 2x 40Gb QSFP+ Uplinks ...

FS Airware erleichtert die Fernkonfiguration und das Debugging für Cloud-basierte Netzwerke. Ideal für die Aggregation in großen Campusnetzwerken und als Core-Switch in kleinen bis mittelgroßen

Arista Platforms 400GbE

Arista Networks is the leader in building scalable high-performance and ultra-low latency Ethernet Switches and Network Switch Platforms 400GbE - 100GbE - 40GbE - 25GbE - 10GbE

Cisco Catalyst 9200 C9200L-48T-4G Layer 3 Switch

Amazon : Buy Cisco Catalyst 9200 C9200L-48T-4G Layer 3 Switch - 48 X Gigabit Ethernet Network, 4 X Gigabit Ethernet Uplink - Manageable - Twisted Pair, 48-port 10G/25G L3 Aggregation Fiber Switch with 8

This Switch is engineered for robust network redundancy. Its 2-unit physical stacking enables a redundant ring that preserves data integrity even if one switch fails.

Cloud Network Infrastructure

Leaf switches provide connectivity to storage, compute, service, and data center edge network elements. Leaf switches may be deployed by themselves or in a

HMS Networks

HMS creates products that enable industrial equipment to communicate and share information with software and systems. In short: Hardware Meets Software™.

Cisco Catalyst 48-Port Layer 3 Manageable Gigabit Ethernet PoE+ Switch ...

The Cisco Catalyst 48-Port Layer 3 Manageable Gigabit Ethernet Switch C9300L-48P-4X-M is a high-performance switch designed for enterprise-grade networking.

L3 10Gbe Fully Managed Switch with 48 Ports and 40G Uplink

Offering high-performance, high port density, and low latency, S5850-48T4Q is ideal for core and aggregation layers, meeting the requirements of data centres, carriers and enterprise networks, and

Comparing Layer 3 and Layer 2 Switches

This article discusses the difference between layer 2 and layer 3 switches and the appropriate use cases for each.

Network Switches

Cisco network switches deliver performance, flexibility, and security. Cisco switches are scalable and cost-efficient and meet the demands of hybrid work.

RG-NBS5200-48GT4XS-UP, 48-port Gigabit Layer 3

RG-NBS5200-48GT4XS-UP, 48-port Gigabit Layer 3 PoE Switch, 4 SFP+ Uplink Enterprise, Hospitality, Factory, Education, Retails etc.

S7600-48Y8C, 48-Port Managed Layer 3+ 25G

S7600 series Aggregation switches support remote direct memory access (RDMA), which over other network APIs for lower latency, CPU load and

48 Port Switches — Streamline Your Network

Scale your infrastructure fast with our 48 port switches featuring PoE and SFP uplinks. Choose from managed and unmanaged models and streamline your

Campus Switches RG-S6150-48VS8CQ-X 48-Port

Core or aggregation switch for small and medium-sized networks, supporting the smooth evolution to 25G campus networks. The VSU connects to peripherals

Layer 3 48 Port Gigabit Switches

Layer 3 48 Port Gigabit Switches The right choice of 48 Port Gigabit Switch can be vital in ensuring that your network performs to its very best. 48-Port Gigabit Switches are ideal for connecting a group of

RG-CS85-48SFP4XS-D 48-Port 1GE SFP Layer 3 Enterprise-Class Core

Layer 3 GE Core & Aggregation Switch RG-CS85-48SFP4XS-D Aggregation switch for small and medium-sized campus networks, with four 10G uplink optical ports for high-speed data transmission;

48 Port Switches

Shop Dell 48 port switches for high-performance networking. Reliable, scalable solutions for businesses of any size.

Switch Pro Max 16 PoE

A 16-port, Layer 3 Etherlighting™ switch with 2.5 GbE, PoE++ output, and versatile mounting options.

HPE Aruba Networking CX 8325-48Y8C 48-port 25G

Optimize for your deployment with models that provide 48 ports of 1/10/25 GbE plus 8 ports of 40/100GbE or 32 ports of 40/100GbE. The CX 8325P-32C switch

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