

Recommended Layer 3 Core Switch Models

Article Overview

Top Layer 3 core switches for enterprise and data center networks include Cisco Catalyst 9300L, Cisco C9500-16X-A, Ubiquiti Enterprise XG 24, MikroTik CRS317-1G-16S+RM, and high-density data center switches like Huawei CloudEngine XH16800-8.

Enterprise Core Switch Recommendations

- Cisco Catalyst 9300L
 - 24-48 Gigabit PoE+ ports with 740W power budget
 - Four 10Gb SFP+ uplinks for high-speed fiber connectivity
 - Supports StackWise Virtual for unified management across up to eight units
 - Advanced Layer 2/3 features, VLANs, STP, QoS, and security protocols like MACsec and TrustSec
 - Ideal for campus or enterprise core deployments with scalability and redundancy
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- Cisco C9500-16X-A
 - 16 10Gb SFP+ ports with switching capacity up to 480 Gbps
 - Dual hot-swappable power supplies and fans for high availability
 - Supports advanced Layer 2/3 services and programmable automation via IOS XE
 - Suitable for enterprise core or aggregation layers requiring high throughput and security
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- Ubiquiti Enterprise XG 24
 - 24 10GbE RJ45 ports and 2 25G SFP28 uplinks
 - Full Layer 3 routing for inter-VLAN communication
 - AC/DC power input options and rack-mountable design
 - Optimized for high-density enterprise environments with minimal latency
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- MikroTik CRS317-1G-16S+RM
 - 16 SFP+ 10GbE ports with 1GbE management port
 - Hardware-based STP and LACP for redundancy
 - Dual redundant power supplies and passive cooling
 - Compact 1U rack-mountable design suitable for small to medium data centers

Data Center Core Switch Recommendations

- Huawei CloudEngine XH16800-8
- High-performance 100G Ethernet network switch...

Article Content

May 14, 2026

Cisco Switch Selector

Just answer a few simple questions, and our Cisco Switch Selector will recommend a product for you. Not finding what you're looking

Dec 19, 2025

Best Core Switches for 2026 Enterprise Networks

Discover the top core switches for 2026 enterprise and data center networks. Compare modular, fixed, and high

Mar 15, 2026

Cisco Three Layer / Three-tier Hierarchical Network Model

Distribution layer: The Distribution Layer is located between the access and core layers. The purpose of this layer is to provide

Oct 06, 2025

Layer 3 Switches

While Layer 3 switches offer more advanced features than basic switches, many modern models are designed with user-friendly

Jul 09, 2026

Layer 3 Lite vs Layer 3 Basic vs Layer 3 Dynamic vs Layer 3 ...

This guide provides a comparison of Layer 3 network switches: Lite, Basic, Dynamic, and Advanced, to help you

Sep 22, 2025

Network Switches

Cisco network switches deliver performance, flexibility, and security. Cisco switches are scalable and cost

Dec 31, 2025

How to Choose Layer-3 /Core Switches for Enterprise Networks□

However, they are also more expensive than fixed switches. In order to guarantee the availability of the network, it is

Mar 30, 2026

Best Layer 3 Switch in 2026: Tested and Reviewed

In this guide, we've tested and reviewed some of the top Layer 3 switches available today to help you make an

Apr 03, 2026

10 Best Layer 3 Switches

10 Best Layer 3 Switches Layer 3 switches are one of the most advanced networking devices available today. They are able to

Mar 02, 2026

Two-tier and three-tier switch architectures

1) Core switches Core switches represent the heart of the network and are the top layer of a three-tier network. With its high

Mar 30, 2026

Cisco Catalyst Layer 2 and Layer 3 Fixed-Configuration Product Guide

Cisco Catalyst Fixed Switches Selection Guide Quickly identify the recommended Cisco Catalyst Layer 2 and 3 fixed-configuration

Aug 13, 2025

Switch models, widely used in different layers of Hierarchical model ...

Switches in Core layer must support higher level throughput for layer 3 routing So please suggest some commonly

Nov 25, 2025

SMB Network Design: Core vs. Distribution vs. Access Switches

Managed vs. Unmanaged Switches: Which Belong Where? Before comparing layers, it's crucial to understand the

Jan 03, 2026

Fixed Port L3 Managed Ethernet Switches

HPE Networking CW 2150 Switch Series HPE Networking CW 2150 Switch Series empowers your business with reliable, high

Feb 13, 2026

Fixed Port L3 Managed Ethernet Switches

These fully managed, stackable Layer 3 switches deliver enterprise-grade features without the complexity or high cost. With CW

Dec 03, 2025

Three-tier switch networks: LANCOM Systems GmbH

Efficiently plan and implement 3-tier switch architectures with core, aggregation, and access switches from LANCOM!

Jul 25, 2025

Layer 2 or 3? Choose the right switch for optimal

Learn how to choose the right network switches for your enterprise. Explore Layer 2 and

Mar 21, 2026

Campus LAN Core and Distribution Switches

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

Jul 21, 2026

Best Layer 3 Switch of 2026: Tested and Reviewed

In this guide, we've tested and reviewed the best layer 3 switch on the market to help you choose the right one for your

Dec 04, 2025

Top 12 Layer 3 Switches to Elevate Your Network

Discover the top picks for the best layer 3 switch, ensuring unmatched performance and seamless connectivity for your network needs.

Sep 22, 2025

Best Layer 3 Switches For Network Dominance

A Layer 3 switch, at its core, combines the functionalities of a traditional Layer 2 switch and a router. While a Layer 2

Jan 26, 2026

Cisco Switches Comparison: Choosing the Right Model for Your

Conclusion Choosing the right Cisco switch model for your business is critical to ensuring that your network operates

Oct 12, 2025

HPE Aruba Switches: Categories, Comparison, Specs & Features

Looking for the best HPE Aruba switch? Compare models 2530, 2540, 2930F, 2930M, 3810M, 5400R, CX 6300, CX

Aug 21, 2025

L3 SWITCHES

The L3 switch is ideal for service provider edge aggregation, enterprise wiring closets, data center

May 04, 2026

Layer 3 Switch Recommendation : r/homelab

I've found a couple contenders but wanted to see more opinions on good switches. I'm open to hearing other options if there are any

Sep 13, 2025

Layer 3 Switch Recommendation : r/homelab

Hello everyone, I'm looking for advice on Layer 3 Switch recommendations. I've looked here for awhile but wanted to get some more

Contact Us

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