

Recommended Layer 3 Aggregation Switch



Article Overview

Top Layer 3 aggregation switches in 2026 include Cisco Catalyst 9300/9200, Ubiquiti USW-Pro/Enterprise XG, HPE Aruba CX 6300/6400, and Asterfusion SONiC-powered CX series, offering high performance, scalability, and advanced Layer 3 features.

Key Considerations for Choosing a Layer 3 Aggregation Switch

When selecting a Layer 3 aggregation switch, focus on:

- **Port Density & Uplinks:** Ensure sufficient downlink ports to connect access switches and high-speed uplinks (10G/25G/40G/100G) to the core layer .
- **Layer 3 Features:** Look for inter-VLAN routing, static/dynamic routing, DHCP server, ACLs, and QoS support .
- **Redundancy & Reliability:** Dual hot-swappable power supplies, fan redundancy, and stacking capabilities enhance uptime .
- **Management & Automation:** Cloud-based or on-premises management, SNMP, and support for SDN or SONiC OS improve operational efficiency .
- **PoE Support:** If powering devices like IP phones or access points, consider PoE/PoE+/PoE++ capabilities .

Recommended Layer 3 Aggregation Switches

1. Cisco Catalyst 9300 / 9200 Series

Article Content

Core, Aggregation, or Access Switches? Choose the

Selecting between core, aggregation, and access switches is not only technical — it's

Link Aggregation: Static vs Dynamic, LACP, and MLAG

Understand how link aggregation (LACP, MLAG, static vs dynamic) improves bandwidth

Switch Features: Managed vs Unmanaged, Aggregation, Layer 2 vs Layer 3 ...

Learn the difference between managed and unmanaged switches, and how switch

Data Center Design: Basic 3 Layers, Core, Aggregation, and Access

Key Features of 3 layers design of Data Center: Data center network is divided into 3 standard three-layer structure.

Link_Aggregation_Config_Guide

1 Link Aggregation Configuration Guide This document describes the Link Aggregation feature supported in

LAN Topologies

Layer 3 services for wired network hosts are moved from the core to VSX pairs of aggregation switches. A pair of core

Layer 2 vs Layer 3 Switch: Key Differences and Use Cases

Layer 2 vs Layer 3 switch explained. Learn MAC vs IP forwarding, inter-VLAN routing,

Cisco Switch Selector

Cisco Meraki MS400 series brings powerful cloud-managed switching to the aggregation layer. This range of 1 and 10Gbps fiber

UniFi Enterprise Campus Aggregation

1.8 Tbps high-density 100G/25G Layer 3 Etherlighting™ aggregation switch with MC-LAG support for high availability system design.

r/Ubiquiti on Reddit: Switch Pro Aggregation

Does anyone have experience with the Switch Pro Aggregation and routing? The store description says it is "a fully managed, Layer

Link Aggregation and Load Balancing

Implementation by Cisco Meraki MS Series Cisco Meraki MS switches use the open standard LACP to provide Layer

Layer 3 Routing – Ubiquiti Help Center

Layer 3 Routing allows a UniFi Switch to route traffic between VLANs and to other destinations using static routes. It is possible use

Ubiquiti ECS-Aggregation Switch Unboxing

The Ubiquiti ECS-Aggregation Switch is a high-density, high-performance Layer 3 Ethernet aggregation switch

What is an Aggregation Switch?

The aggregation switch is located in the middle of the network architecture, which is

3-Layer Enterprise Switching Architecture: Core vs Access

Explore enterprise switching architecture and see how core, aggregation, and access layers integrate with PoE,

Data Center Multi-Tier Model Design

Familiarize yourself with this diagram before reading the subsequent sections, which

6 New Layer 3 Aggregation & Core Switches Powered By SONiC

Asterfusion introduced five Layer 3 aggregation and core switches powered by their cutting-edge SONiC-based

Link Aggregation and Ethernet Bonding Feature Overview and ...

The following example shows how to configure three links between two Allied Telesis managed Layer 3 switches. The three links are

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

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

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

Looking for a reasonable layer 3 switch recommend one ?

I was looking at this one. TP-Link 24 Port Gigabit Switch | Smart Managed Switch w/ 4 SFP Slots | Rackmount |

Datacenter Core and Aggregation Design

Introduction Layered Datacenter Architecture Datacenter Core Layer Datacenter Aggregation Layer Datacenter

Meraki MS450-12

Meraki MS450-12 Layer 3 aggregation switch Connect multiple access layer devices for a more versatile network.

Comparing Layer 3 and Layer 2 Switches

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

Aggregation Network Switches | Grandstream Networks

The GWN7830 Series of Layer 3 Aggregation Network Switches offers 3 model options, with up to 24 SFP

Contact Us

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