

Selection Guide for Best-Selling Campus Network-Grade Aggregation Switches



Article Overview

Choose aggregation switches based on campus role, performance requirements, redundancy, and vendor-specific features to ensure scalability and reliability.

Key Selection Criteria

1. Network Role and Layer

- **Access Layer:** Connects endpoints like users, phones, cameras, and APs. Focus on port density, PoE support, mGig readiness, uplink speed, and stack size (Cisco Catalyst 9200/9300, HPE Aruba VSF stacks) .
- **Distribution/Aggregation Layer:** Aggregates access switches, enforces policies, and isolates faults. Prioritize high-speed uplinks, routing capabilities, redundancy, and policy enforcement .
- **Core Layer:** Handles backbone traffic between distribution blocks, data centers, and WAN edges. Requires high bandwidth, stability, modularity, and long-term expansion options (Cisco Catalyst 9500/9600, HPE Aruba modular cores) .

- **Throughput:** Ensure the switch supports the required aggregate bandwidth (e.g., Ubiquiti ECS 1.8 Tbps for high-density 100G/25G environments) .
- **Port Density:** Match the number of access switches and endpoints; consider future growth.
- **Uplink Options:** Evaluate 10G, 25G, 40G, or 100G uplinks depending on aggregation needs.

Article Content

Ubiquiti UniFi Enterprise Campus Aggregation 48-Port Network Switch

The Ubiquiti UniFi Enterprise Campus Aggregation is an enterprise-grade network switch focused on extremely high-throughput fibre

Capacity Planning

The Campus Reference Architectures section describes how to select HPE Aruba Networking compatible products to

9 Best Network Switches for 2024: Speed and Features

Network switches can increase your network's connectivity speeds, give you access to

Selecting Network Devices (1.2) > LAN Design | Cisco Press

Aggregation switches are carrier-grade Ethernet switches that aggregate traffic at the edge of a network. Service

Switch Enterprise Campus Aggregation

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

Selecting Campus Switches and Routers

– Focus on scalability, sufficient CPU to ensure current and immediate future needs – Router or “L3 Switch” is often appropriate, as

Cisco Switch Selection Guide for Enterprise Campus Networks

Learn how to choose Cisco campus switches by layer, site size, PoE, uplinks, redundancy, and lifecycle risk. A

Best Network Ethernet Switches – Gigabit-Managed-Unmanaged

Here are the 14 Best Ethernet Network Switches classified in various categories such as best Gigabit, best home

Selecting Campus Switches and Routers

Selecting Distribution Switches In addition to the previous general features: L2 device only – connecting edge switches!

Select the Right 25G Switch for Your Campus and Data Center

In larger organizations, these switches also serve at the aggregation layer, efficiently consolidating traffic from various

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

Smart Selection Guide for Campus Network-Grade Aggregation

Campus networks typically adopt a tiered design, scaled according to the specific needs of the individual campus. The S5580-48Y

Core, Aggregation, or Access Switches? Choose the

Discover the crucial differences between core, aggregation, and access switches. Find out

Campus Network Switches and Routers Guide

The document provides guidance on selecting switches and routers for a campus network. It recommends that edge

Bringing SWAG to Enterprise Campus Networking!

Building upon that MLAG experience, Arista SWAG™ (Switch Aggregation Group) brings

Campus LAN Access Switches

Cisco Catalyst and Cisco Meraki campus LAN access switches combine wired and wireless to help you drive digital transformation,

Large Campus Switching Best Practices

This guide provides information and guidance to help the network administrator deploy the Meraki Switch (MS) line in a Campus

Campus Switches | Huawei Enterprise

Huawei campus switches are ideal for building future-proof campus networks with simplified management, high reliability, and service

Campus LAN Core and Distribution Switches

Build the foundation for an automated, digital-ready network with 400G core switches. Get set for whatever the future brings, with

Best Enterprise Switches 2025: Top 5 Network

Network Devices offers brand-new IT hardware for businesses of all sizes—shop switches,

The 9 Best Enterprise Network Switches for 2026

Generally speaking, enterprise-level switches are rack-mounted. When used as a backbone switch, it can support

Choosing the Right Network Switch: A Buyer's Guide

What are the best network switches for IT departments, what should be considered when

Campus Switches

Huawei S Series Switches fully accommodate metro core, aggregation, edge aggregation, and access networking requirements, and

9 Best Campus Network Switch | Stop Overpaying for Port Density

Whether you are upgrading a university building, a school district office, or a large enterprise floor, this breakdown of the best

Campus Switching: Campus Network Switches Optimization Tips through ...

Learn what campus switching is and how it can enhance your network. Our

Contact Us

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