

Ethernet Aggregator Switch



Summary of Content

An Ethernet Aggregator Switch consolidates traffic from multiple access switches or devices into a high-bandwidth link to the core network, enhancing performance, redundancy, and scalability.

Overview

An Ethernet Aggregator Switch (also called an aggregation switch) is a network device that sits between access switches and core switches, consolidating traffic from multiple sources such as access switches, wireless access points, or servers, and forwarding it efficiently to the core network. It is commonly deployed in enterprise backbones, data centers, and large campus networks to reduce bottlenecks and improve network performance.

Key Functions

- **Traffic Consolidation:** Aggregates multiple lower-layer connections into a single high-bandwidth uplink to the core network.
- **Routing and Forwarding:** Can operate at Layer 2 or Layer 3, forwarding packets based on MAC or IP addresses.
- **Link Aggregation:** Supports Link Aggregation Control Protocol (LACP) or static link aggregation to combine multiple physical Ethernet links into a single logical link, increasing bandwidth and providing redundancy.
- **Load Balancing:** Distributes traffic across aggregated links to optimize throughput.
- **Quality of Service (QoS):** Prioritizes critical traffic to maintain performance for latency-sensitive applications.

Article Content

Network switch

A network switch (also called switching hub, bridging hub, Ethernet switch, and—by the IEEE — MAC bridge) is networking

Aggregation Network Switches | Grandstream Networks

Layer 3 aggregation switches that allow enterprises to build scalable, secure, high performance and smart business networks that

Core, Aggregation, or Access Switches? Choose the Perfect Fits

Discover the crucial differences between core, aggregation, and access switches. Find out which type can best

What Is an Aggregation Switch and How to Choose?

Discover the role of aggregation switches. Explore differences between aggregation, access, and core switches, and

Aggregation Switches | Managed Core Network Performance for

High-performance aggregation switches designed for industrial and FTTH networks. Support Layer 2/3 management, Gigabit and

Actelis Managed Hardened Ethernet Aggregation Switch Portfolio ...

Place an Actelis Ethernet aggregation switch in your network data center and aggregate the data running throughout your network.

Link aggregation

Nortel's split multi-link trunking (SMLT) protocol allows multiple Ethernet links to be split across multiple switches in a stack,

Which Aggregation Switch to Choose?

This article provides an in-depth exploration of aggregation switches, including their functions, how they operate, their

Switch Aggregation

Faster replacement and priority support, covered for 5 years. High-performance 10G SFP modules for optimal connectivity. An 8-port,

What is an Aggregate Switch?

An aggregate switch is a high-capacity network switch that consolidates connections from multiple access switches,

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

