

Aggregation switch with eight or more WAN ports

Article Overview

Aggregation switches with eight or more WAN ports are available in both Layer 2 and Layer 3 models, offering high-speed SFP/SFP+ uplinks, link aggregation, and advanced management features for enterprise and campus networks.

Ubiquiti UniFi Aggregation Switch

The Ubiquiti UniFi Aggregation Switch is a Layer 2 managed switch with eight 10G SFP+ ports, designed for high-bandwidth uplinks and aggregation to other UniFi devices. It offers a 160 Gb/s switching capacity and a 119.04 Mpps forwarding rate, with a fanless steel construction suitable for rack mounting. The front panel includes a 1.3" touchscreen for port identification, and the switch can be managed via the UniFi Network Controller platform for configuration, monitoring, and network management .

Ruijie RG-S5760C-24SFP/8GT8XS-X

For campus or enterprise networks, the Ruijie RG-S5760C provides 8 x 1GE/10GE SFP+ uplink ports along with 24 x 1GE SFP ports. It supports VSU virtualization, allowing multiple physical switches to operate as a single logical unit, improving reliability and simplifying network architecture. The switch also features dual Flash chips for boot redundancy, power module failover, and dual-stack IPv4/IPv6 support, making it suitable for high-speed, scalable campus networks .

Grandstream GWN7830 Series

The GWN7830 series offers Layer 3 aggregation switches with up to 12 SFP+ ports and up to 24 SFP ports, ideal for medium-to-large enterprises. These switches support advanced VLANs, QoS, IGMP/MLD snooping, and comprehensive security features. Management is available via local web interface, CLI, GWN.Cloud, or GWN Manager, providing flexibility for both on-premise and cloud-based network administration .

Key Considerations

When selecting an aggregation switch with eight or more WAN ports, consider the following:

- o Port type and speed: SFP+ (10G) vs SFP (1G) depending on uplink requirements.
- o Layer 2 vs Layer 3: Layer 2 for simple aggregation, Layer 3 for routing and advanced network segmentation.
- o Redundancy and reliability: Features like dual power modules, boot redundancy, and virtualization support.
- o Management options: Cloud-based, local GUI, CLI, or controller-based management.



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o Scalability: Ability to aggregate multiple switches or expand port capacity as network grows. These switches are suitable for high-performance networks, including enterprise backbones, campus networks, and data center uplinks, providing both high throughput and robust management capabilities.

Learn how WAN aggregation enhances bandwidth, reduces latency, increases scalability, and more to optimize

Layer 2 switch provides a complete lineup of features including IGMP snooping, port mirroring, and spanning tree Rack-mountable

Ethernet port aggregation between two devices allows your devices to treat multiple Ethernet links as if they were a

High-performance 10G SFP modules for optimal connectivity. An 8-port, Layer 2 switch made for 10G SFP+ connections.

Aggregation layer The aggregation (sometimes also called distribution) layer is a real crossroad. Its primary goal is to increase

As long as the wan connections on the switch are in a separate vlan, that should work fine. In enterprise networks wan is often

This compact managed Layer 2 switch offers eight 10G SFP+ ports and supports high-bandwidth links, making it ideal for

Link aggregation offers an inexpensive way to set up a high-capacity backbone network that transfers multiple times more data than

The Ubiquiti UniFi USW-Aggregation is a managed Layer 2 switch with eight 10G SFP+ ports, offering link aggregation for higher

Aggregation switch for small and medium-sized campus networks, with 8 x 1GE/10GE SFP+ uplink ports for high-speed data

Instead of all the traffic flowing through one port, link aggregation spreads it across multiple ports. This prevents a single port from

You can either mirror or aggregate ports. So if you aggregate ports 1 and 2 you won't be able to mirror them

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and if you mirror a port

UniFi Aggregation Switch is a managed Layer 2 switch with eight 10G SFP+ ports. Featuring a compact 4.7" depth and fanless

Ethernet Port Aggregation bonds multiple Ethernet ports into one logical link for more speed and redundancy using

Port Aggregation Port aggregation allows you to group multiple physical ports into one unit. Port aggregation is useful for

Conclusion: What is an aggregation switch? In network architecture, they are now extremely important. The

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