

Switch aggregation uplink ports

Article Overview

Uplink ports on an aggregation switch connect the switch to higher-tier devices, such as core switches or routers, providing high-bandwidth, redundant paths for aggregated traffic.

Purpose of Uplink Ports

Uplink ports serve as the connection from an aggregation switch to the next layer in the network hierarchy, typically a core switch or router. They carry the combined traffic from all downstream access switches or edge devices, ensuring that the aggregated data flows efficiently without creating bottlenecks. These ports are usually configured as VLAN trunks to carry multiple VLANs and are sized to handle the total traffic from the access layer .

Port Aggregation and Uplinks

To maximize throughput and redundancy, uplink ports often use link aggregation. This combines multiple physical ports into a single logical link using protocols like LACP (Link Aggregation Control Protocol) or static aggregation. Aggregated uplinks provide higher bandwidth and failover capabilities, ensuring that if one port fails, traffic continues to flow through the remaining links .

Key Considerations:

- **Port Speed:** Uplink ports are typically faster than access ports, often 10G SFP+ or 40G QSFP+, depending on the network design and traffic requirements

Article Content

Dec 26, 2025

Cisco Switch Port Aggregation

How to configure an etherchannel link between 2 cisco 2960 switches. The etherchannel allows to combine several

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Uplink Port on a Switch: vs Normal, Sizing & VLANs

An uplink port connects a switch up to a higher-tier switch or router. Learn uplink vs normal ports, VLAN trunking,

Aug 09, 2025

Configuring a LAG on a vSphere Distributed Switch Port

This article provides information on configuring a LAG within the vSphere Distributed Switch while using Link

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Switch Stacking vs Switch Trunking vs Switch Uplink

Learn how switch stacking, trunking, and uplink differ in function and deployment to determine the proper method for

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How does link aggregation work in reality?

I'm concerned that I'm misunderstanding how aggregators work in the scenario below: I have a project where I need 40 Gbps links

Apr 15, 2026

What are Link Aggregation Groups (LAGs) and how do they work with

Link aggregation lets a switch treat multiple physical links between two endpoints as a single logical link. All the

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How to enable Link Aggregation (LAG) on UniFi Switches

Link Aggregation (LAG), combines two or more ports into one link. Now let's assume our switches only have 1 GbE

Jul 29, 2025

What Is an Aggregation Switch and How to Choose?

An aggregation switch is a network device that consolidates traffic from multiple access switches, wireless access

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Link Aggregation and Load Balancing

To configure two or more ports, up to eight, as a port aggregate, navigate to Switching > Monitor > Switch ports and

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UniFi link aggregation: the ultimate guide | UniHosted

Need more bandwidth or failover on UniFi switches? What LACP link aggregation does, which devices

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ieee 802.1ax

Cisco recommends a 20:1 aggregate access port bandwidth to distribution (uplink port) bandwidth ratio. You can

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Port Aggregation Configurations

Port aggregation is useful for implementing load balancing and provides a redundant link backup. To allow port aggregation, the

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Understanding Switch Uplink Ports and Their Functionality

A switch uplink port, also known as a trunk port, is a specialized port on a network switch

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Stackable Aggregation Managed Switches

Stackable Aggregation Managed Switches Streamlined Aggregation, Maximum Efficiency Versatile Speeds

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Solved: Understand uplinks

Solved: I need some help in understanding the usage of an switch uplink. Lets take the C1000-24T-4X-L as an

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Everything You Need to Know About Aggregation Switch

Port Density: Aggregation switches should have adequate port density to accommodate high

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Uplink Port vs Normal Port on Network Switch

In the switch technology framework, uplink ports and normal ports are akin to highways and city roads. This article

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Can I aggregate multiple uplink ports between Ethernet switches?

What you need is link aggregation (LAG), preferably LACP which is an IEEE, vendor-agnostic aggregation protocol. Put the desired

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Aggregation Switch

An Aggregation or "Top-of-Rack" switch is designed to connect everything in a rack at high speeds, then have an even bigger pipe

Jul 02, 2026

How to Aggregate Ports on UniFi Switch

Aggregating ports on a UniFi switch combines multiple physical links into a single logical link, increasing bandwidth

Nov 27, 2025

GWN76xx - Link Aggregation Guide

Overview Link Aggregation (also known as Port Bonding or LAG) enables GWN76xx access points to combine

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Switch Ports

Meraki's MS switches allow for the configuration of a single port to thousands of ports through our industry-first Virtual

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Port Aggregation Configurations

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

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Uplink Port on a Switch: vs Normal, Sizing & VLANs

The port that carries traffic up that chain is the uplink, and its job is aggregation: a 48-port switch gathers the traffic of

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Port Aggregation: Boosting Throughput and Redundancy in Enterprise ...

Final Thoughts: Is Port Aggregation Right for You? Port aggregation offers significant benefits for enterprise networks,

Aug 23, 2025

What is "link aggregation" and how does it benefit your network?

For our setup we used, the Trendnet TEG-082WS switch to aggregate multiple ports into a single logical connection

Feb 21, 2026

Switch Ports

To configure an aggregate, simply choose the ports to be aggregated by checking their respective boxes (under

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port aggregation VS uplinks

Posting BTW, uplink ports also often support port aggregation, so that alone isn't always the decider. It depends

Contact Us

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