

Does the core switch have an uplink port

Article Overview

A core switch uplink port is a high-speed interface designed to connect the switch to higher-level network devices, such as other switches, routers, or the Internet, aggregating traffic from multiple access switches.

Purpose of Uplink Ports

Uplink ports on a core switch serve as the primary channels for inter-device communication within a hierarchical network. They connect the core switch to distribution switches, other core switches, or routers, enabling high-bandwidth data aggregation and extending the network topology efficiently. Unlike normal ports, which connect end-user devices like computers or IP phones, uplink ports are optimized for traffic between network devices.

Key Differences from Normal Ports

- **Interface Type:** Uplink ports often use SFP or SFP+ modules, supporting both fiber and copper connections, whereas normal ports are typically RJ45 Ethernet interfaces.
- **Bandwidth:** Uplink ports usually support higher speeds (10Gbps, 25Gbps, 40Gbps, or even 100Gbps) to handle aggregated traffic, while normal ports commonly operate at 1Gbps or lower.
- **Auto-MDI/MDI-X:** Many uplink ports can automatically detect straight-through or crossover cables, simplifying connections between switches.
- **Purpose:** Normal ports connect end devices; uplink ports connect network devices and manage vertical traffic flow in the LAN hierarchy.

Article Content

Jul 25, 2025

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

An uplink port is the switch port that connects “up” to the next device in the network hierarchy — a distribution switch,

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10G uplink 54-port core routing switch-Aggregation/Core switch

L3 managed Ethernet core routing switch with 6*1/10G uplink SFP+ fiber ports and 48*100/1000M SFP ports. Built-in 75W power

Oct 12, 2025

switching

I have been assigned for my first project ever as network engineer, things seems to be going smoothly, but there's

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What Is Uplink Port In Switch?

The uplink port in a switch is a dedicated port, often designated as such, designed to connect the switch to another

May 30, 2026

how to connect access switches uplink to core?

In my opinion if you connected each 2960 to each other with only one connected to the core, unless its the last 2960

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Uplink ports explained

This would allow you to pass both vlans" traffic upstream to your core on one port. Your core switch would also need

Dec 31, 2025

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

Feb 27, 2026

What is the purpose of an uplink port and why do some switches have

In enterprise networks they'll have what's known as a core switch which will be all 10/20/40GB ports and all other switches will uplink

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Understanding Core Switch: What It Is and How to Choose the Right

If budget permits, opt for a core switch with diverse port types and a higher number of ports. For instance, a switch

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Uplink Port vs Normal Port: What Are the Differences and How

Uplink Ports are high-speed connections that interconnect switches and enable connections to higher-level devices

Mar 14, 2026

Solved: Uplink Ports vs Normal Ports

Some Ethernet computer networking equipment contains an uplink port. These ports simplify connecting different

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Core Switch Room Uplink Connectivity

The document outlines the uplink connectivity configurations between core switches and hub rooms, detailing connections between

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What's an uplink port? Is it a port that simply uses Auto

The term "uplink" can have several meanings depending on the context. Most commonly in a networking

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What is Gigabit Uplink in a PoE Switch?

A gigabit uplink in a PoE switch is essentially a high-speed port, typically operating at 1 Gbps transfer

Aug 28, 2025

Uplink Ports: their importance, variations, and significance

An uplink port offers greater bandwidth than a standard port as it's utilized to aggregate traffic between different network layers.

Nov 20, 2025

Difference between a core switch and "normal" switch?

Core switches have much higher limits: on number of VLANs, MAC addresses, ACL number and complexity. It's also commonly a

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Differences Between the Core Switch and Normal Switch | FiberMall

The so-called core switch is for the network architecture. If it is a small local area network with several computers, a

Apr 19, 2026

Uplink Port vs Normal Port on Network Switch

The uplink port on a network switch is designed to connect the switch to a higher-level network device, like a router,

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Solved: Uplink Ports vs Normal Ports

I.e. often, logically, any switch port can serve as an "uplink" port. As noted in my long ago prior post, ports used for

Aug 09, 2025

Core Switch vs Access Switch | Definitions and Key Differences

Core Switch vs Access Switch The core switch is used in the center of your network, while an access switch is placed

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Uplink Port vs Normal Port on Network Switch

In order to understand uplink port and normal port, we'd better first know about common switch types and port types.

Apr 21, 2026

Difference between uplink and downlink ports

Posting An uplink port generally means a port used that connects toward the core of the network. A downlink port

Jan 08, 2026

Switch Uplink Port and Normal Port: What is the Difference?

In the world of networking, switches are the silent heroes that connect all your devices into a seamless

Jul 16, 2026

Uplinking Cisco Devices

How do I uplink Cisco catalyst 3850 12X 48 UPOE (as an access switch) with Cisco nexus 93180 as the working core?

Nov 20, 2025

What Is an Uplink Port? – ITU Online IT Training

What Is an Uplink Port? If a switch in one room has nowhere to send traffic except to the devices plugged into it, the

Apr 12, 2026

Ethernet Switch with 10Gb Uplink or 1Gb Uplink

Figure 1: Deploying FS 48-port Ethernet switches with 4 SFP+ 10Gb uplinks ports as access switches to connect

Mar 08, 2026

What Is POE Downlink And Uplink Port

Uplink port The uplink port refers to the port connected to the aggregation or core network. Usually, the interface rate is higher and

Jul 11, 2026

Switches and Uplink

I'd like some clarification about connecting switches and I seem to be getting conflicting information from different

Oct 05, 2025

Switch Uplink Port and Normal Port: What is the difference?

So, the uplink port connects the switch to other switches or “higher” layer routers. Additionally, the core-layer switch

Contact Us

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