

The switch with the most uplink optical ports is



AI Overview

ExtremeSwitching switches offer up to 12 uplink ports, the highest among the examples provided, using combination copper/optical ports. Details on Uplink Optical Ports Uplink ports are used to connect a switch to higher-tier network devices, such as distribution or core switches, and carry aggregated traffic from all downstream devices. Modern switches may have dedicated uplink ports or allow any port to function as an uplink, but dedicated uplinks often provide higher speeds and support multiple VLANs efficiently. ExtremeSwitching Switches ExtremeSwitching switches provide 2, 4, or 12 uplink ports implemented as combination ports, pairing a copper RJ45 port with an optical SFP port. The optical ports allow Gigabit Ethernet uplinks using SFP modules, and the switch supports automatic failover between copper and fiber connections. With 12 uplink ports, these switches offer the highest uplink optical port density among the examples cited. Huawei CloudEngine S5736-S The Huawei CloudEngine S5736-S series features 48 downlink optical ports and four 10 GE uplink ports. While it provides high-speed uplinks suitable for aggregation, the total number of uplink optical ports is lower than the ExtremeSwitching models. Summary For scenarios requiring the maximum number of uplink optical ports, ExtremeSwitching switches with 12 combination uplinks are the top choice. Huawei CloudEngine S5736-S switches provide fewer uplinks (four 10 GE), but they offer high-speed 10G connectivity and all-optical downlinks, making them suitable for high-performance campus or data center networks.



Article Content

Huawei S220-24T4X 24 Port Managed Switch

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Ethernet Switch Port Types Explained 2026: RJ45, SFP, QSFP+ & More

This guide provides an engineering-level overview of switch port technologies, real-world deployment mapping, and detailed selection methodology for campus, enterprise, and data center

Cisco Catalyst 9300 Series Switches Data Sheet

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Connecting Multiple switches to core : r/networking

We are planning for intranet in our office with 2 buildings (80 users). Currently there is a Data center with 3 servers connected to Cisco C9300 as a core. All servers are in 1G and 8 SFP+ ports are

Ethernet Switch Port Types: Architecture, Speeds,

This guide delivers an engineering-focused overview of switch port technologies, practical deployment mapping, and a detailed selection methodology for campus,

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 up to 48 devices and funnels it through one or two uplinks.

16 Port PoE Switch

16 Port PoE Switch Video Overview Watch our video overview of this 16 port PoE switch to see how it is used to power IP security cameras, connect back to an NVR, and simplify PoE camera installations

Cisco Catalyst 1300 and 1300X Series Switches

The Cisco Catalyst™ 1300/X Series Switches are affordable, simple-to-use switches designed and built for enterprise branch offices as well as SMB

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 example. It has 24 Gb ports and 4 SPF+ uplinks. My basic understand it that

What Is an All-Optical Ethernet Switch?

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal choice for building an all-optical campus network. They can function as

4 Best 4 Port PoE Switch | Forget Power Supplies on Every Camera

Whether you own two cameras or a full rack of gear, the best 4 port poe switch comes down to your total power budget, whether you need basic management features, and how long you expect the

Switch Port Planning + Optics & Cabling for

In 2026 enterprise designs, the most common "balanced" pattern is 10G/25G at the access edge + 100G uplinks-because the uplink/aggregation

A Comprehensive Overview of Ethernet Switch Port Types

The SFP port is commonly found on Gigabit Ethernet switches and is primarily used for fiber optic device connections or for uplinking 1G switches to aggregation/core layer devices,

CloudEngine S5736-S Series Switches | Huawei Enterprise

CloudEngine S5736-S Series Switches are next generation standard all-optical GE switches, with 48 downlink optical ports and four 10 GE uplink ports.

400G vs 800G Ethernet in 2026: Data Center Trends

A practical 2026 guide to 800G Ethernet adoption: spine-leaf design, congestion control, observability, optics and fiber planning, and how to upgrade.

ONU vs Router vs Switch: Key Differences in Fiber Network Devices

Key Difference Between ONU, Router, and Switch While ONUs, routers, and switches may be used together, they differ in several fundamental ways: 1. Functionality and Role The ONU

What Is an All-Optical Ethernet Switch?

An all-optical Ethernet switch provides both optical uplink and downlink ports, and uses optical fibers that feature high transmission speed, large bandwidth, and strong anti-interference

Multi-Gig Ubiquiti Home Network Guide: Utilizing AT& T

Technical case study for building a multi-gigabit home network with UniFi. Learn Flow Control configuration, channel width optimization, and how to

Cisco Catalyst 9300 Series Switches Data Sheet

Cisco Catalyst 9300 Series Switches (C9300X and C9300 SKUs) support optional network modules for uplink ports (Figures 2 and 3). These field-replaceable network modules with 25G and 40G speeds in

Cudy switch poe gigabit 4poe + 1gbe + sfp port 120w gs1005pts1

The Cudy GS1005PTS1 4.0 is a robust 5-Port Gigabit PoE+ Unmanaged Switch equipped with an additional dedicated 1G SFP uplink slot, meticulously engineered for professional installations and...

Uplink Port vs Normal Port on Network Switch

This article explores the differences between uplink and normal ports in network switches, emphasizing their roles, data processing capabilities, and applications.

Best Network Switches: Buying Guide and 2026's Top 5 | Dong Knows Tech

Best network switches: The quick buying guide and the top five Two things to note before continuing: First, before getting a

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