

The switch with the most uplink optical ports



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 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

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Layer3 managed network switch TOP-S3230-28SX, features with All-Optical

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

10G Multi Fiber Switches 19" L2/L3

The MS400863M is an L2+ multi-fiber switch with a total of 28 fiber optic ports, of which up to 4 ports are designed as 10G uplink ports and a further 4 ports as so

Best Network Switches: Buying Guide and 2026's Top 5

In most cases, a Gigabit switch with a half-dozen or so ports is a viable option for quickly adding more wired devices to a network. However, if you

CloudEngine S6750-S Series Switches

CloudEngine S6750-S series switches are Huawei's next-generation enterprise-class core and aggregation switches that provide downlink GE electrical ports,

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

Ethernet Switch Port Types Explained 2026: RJ45,

This guide provides an engineering-level overview of switch port technologies, real-world deployment mapping, and detailed selection

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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 layer is where

IEC 61850 Fiber Optic Networks for Electrical Substations

Switch Selection: Managed Layer 2 with PRP/HSR Substation Ethernet switches for IEC 61850 process and station bus must be industrial-grade managed Layer 2 switches with fiber uplink

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

16 Port PoE Switch

AvaEye 16 Port PoE Switch for Security Cameras with 180W Power Budget The AvaEye 16POE is an unmanaged 16 port PoE switch built for IP security camera systems, business camera networks, and

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

Cisco Catalyst PON Series Switches Data Sheet

Cisco Catalyst PON Series switches extend the power of Catalyst switches to passive optical network infrastructure. With its family pedigree, Catalyst PON Series switches offer

CloudEngine S5755-S Series Switches

CloudEngine S5755-S series switches are next-generation Ethernet switches developed by Huawei. They provide 24/48 x GE downlink electrical ports (PoE+/PoE++) as well as 8 x 2.5GE and 8 x 25GE

24-Port Layer 3 SFP Switch Buyer's Guide 2024

I have analyzed the market trends and product landscape for 24-port Layer 3 SFP switches for the 2024–2026 period. The market is currently driven by a rapid shift toward AI-optimized infrastructure

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

Campus Switches RG-S5760C-24SFP/8GT8XS-X 24-Port GE Optical

In simple campus scenarios, the switch can achieve easy configuration and high information security, while in large-scale interconnecting scenarios, the switch can realize auto-negotiated update of

Campus Switches RG-S6120-24XMG4XS4VS-UP-H 24-Port 10G

10G/5G/2.5G/1G/100M access, PoE/PoE+/PoE++, 4 x 10G and 2 x 25G uplink optical ports, offering flexible networking options to build high-performance campus networks

Contact Us

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