Delivery Date Fiber Ethernet Switch QSFP28



Overview

It is a hot-pluggable module that uses four lanes of 25G electrical signals to deliver a total data rate of up to 100 Gbps.

Key Takeaways

QSFP28 switches support 100G Ethernet over four 25G lanes, but delivery times depend on vendor stock, module type, and configuration. Understanding QSFP28 SwitchesQSFP28 (Quad Small Form-factor Pluggable 28) is the industry standard for 100 Gigabit Ethernet (100GbE) connectivity. Each QSFP28 port aggregates four 25G electrical lanes, providing a total of 100 Gbps payload capacity while maintaining the same physical footprint as QSFP+ modules.

These switches are widely used in spine-leaf data centers, cloud infrastructure, and high-performance computing networks.

Module Types and Fiber Considerations

The delivery and deployment of a QSFP28 switch often depend on the type of optical module required: SR4 (Short Reach): Uses multimode fiber for distances up to 100 meters. Typically available in stock and faster to ship. LR4 (Long Reach): Uses single-mode fiber for distances up to 10 km.

Lead times may be longer due to lower stock levels.

Z

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R (Extended Reach): Coherent optics modules like Cisco QSFP28 ZR can reach up to 80 km over dark fiber or 300 km over amplified DWDM links. These modules are specialized and may require longer procurement times. The choice of module affects fiber type, connector type (MPO/MTP), and power budget, which in turn can influence delivery schedules.

Factors Affecting Delivery Time

Vendor Stock and Lead Time: Popular vendors like Cisco, Arista, and Juniper may have QSFP28 switches in stock, but high-demand modules (ZR or LR4) can have lead times of several weeks. Customization: Switches with pre-installed modules, specific firmware, or custom configurations may require additional assembly time. Shipping and Logistics: International shipping, customs clearance, and regional distribution can add days to weeks.

Market Demand: QSFP28 switches are widely adopted, but supply chain fluctuations can affect delivery, especially for high-density or high-performance models.

Recommendations

Check Vendor Availability: Contact the vendor or authorized reseller for real-time stock and estimated delivery. Specify Module Type Early: Decide between SR4, LR4, or ZR modules to avoid delays. Plan for Lead Time: For specialized modules like ZR, expect 4–8 weeks depending on vendor and region.

Consider Alternatives: If immediate deployment is critical, SR4 or standard LR4 modules may be faster to procure. In summary, while QSFP28 switches are widely available, exact delivery dates vary by vendor, module type, and configuration. Engaging directly with the supplier is the most reliable way to obtain a precise delivery schedule.

Article Content

What is QSFP28? Guide to 100G Ethernet | NetAlly

It is a hot-pluggable module that uses four lanes of 25G electrical signals to deliver a total data rate of up to 100 Gbps. The “28” in the name refers to the maximum speed of each lane (up to

Cisco QSFP28 100G ZR Digital Coherent Optics Module Data Sheet

This DCO module is tunable across C-band. The module is compatible with widely deployed ports of QSFP28 100G and 100GBASE ER CAUI-4 client interfaces. Its maximum

100G QSFP28 Transceivers: Types, Specs and How to Choose

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A complete guide to 100G QSFP28 transceivers covering types, specs, reach, compatibility, and how to choose the right module for data center and telecom networks.

Cisco Nexus 3232C Switch Data Sheet

This data sheet provides details on the Cisco Nexus 3232C switch, a 100 Gbps quad small form-factor pluggable (QSFP)–based switch with 32 QSFP28 ports.

HPE FlexFabric 5710 Switch Series

The high server port density of the 5710 Switch is backed by 40GbE QSFP+ or 100GbE QSFP28 uplinks to deliver the availability of needed bandwidth for demanding applications. Each 40GbE QSFP+ port

FS S5850 Series Switches Data Sheet

The S5850-48B8C 48-port 10Gb Ethernet layer 3 switch features 48x 25G downlinks and 8x 100G QSFP28 uplinks. The switch can deliver 4 Tbps switching capacity and 2976 Mpps forwarding rate.

Know Your 100G Transceiver | Juniper Networks

It is a specific standard that uses four parallel lanes of 25 Gbps to deliver 100 Gbps over multimode fiber for short-reach applications (up to 70 meters on OM3 fiber or 100 meters on OM4 fiber).

HPE Virtual Connect SE 100Gb F32 Module for Synergy QuickSpecs

If a full 32Gbps bandwidth is desired for any QSFP28 port, then an HPE QSFP28/SFP28 adapter with a 32Gbps FC transceiver will populate the QSFP28 port.

What is QSFP & QSFP28 Port? Everything You Need to

QSFP28 is not a new product; it is widely used in High-bandwidth data center switches, backbone routers, and storage equipment. As one of the most

QFX5120 Network Cable and Transceiver Planning

QFX5120 switches support SFP, SFP+, SFP28, QSFP+, and QSFP28 transceivers. They also support direct attach cables. You can find the list of transceivers supported on QFX5120

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Ultimate QSFP Transceiver Guide: Types (40G/100G)

This module supports four 10 Gbit/s channels carrying 10 Gigabit Ethernet, Fibre Channel, or InfiniBand. Use Case: Core switches in enterprise networks

QSFP-100GBASE-SR4 Juniper 100GBASE-SR4 QSFP28 MTP/MPO

100GBASE-SR4 standard for high-speed 100 Gigabit Ethernet over multimode fiberQSFP28 form factor ensuring compact, high-density deploymentSupports multimode fiber with MTP/MPO connector

Fiber optic transceiver BlueOptics 10401 | AiO.lv

Short-range 100 Gigabit Ethernet connections in data centers Server-to-switch and switch-to-switch uplinks High-bandwidth aggregation and leaf-spine architectures Multimode fiber links within racks or

SFP Modules: The Unsung Heroes of Modern Networks

SFP BY CONNECTION TYPE SFP-SX — Multimode fiber, short range (up to 550m), used for short data center/campus links SFP-LX — Single-mode fiber, long range (up to 10km), ideal for building-to ...

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CBO QSFP28-100G-CWDM4 100G CWDM4 transceiver | AiO.lv

Short description Compact CBO QSFP28-100G-CWDM4 100G CWDM4 fiber optic transceiver designed for 100 Gigabit Ethernet links. The QSFP28 form factor supports high-density installation and

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