

Selection Guide for QSFP28 Fiber Optic Ethernet Switches for Intelligent Computing Centers



Article Overview

QSFP28 switches provide 100G Ethernet connectivity with high port density, backward compatibility, and flexible deployment options, making them ideal for intelligent computing centers.

Understanding QSFP28

QSFP28 (Quad Small Form-factor Pluggable 28) is a hot-pluggable optical transceiver designed for 100G Ethernet, using four 25G lanes aggregated to achieve 100 Gbps throughput . It supports a wide range of distances and deployment scenarios, including data centers, enterprise core networks, and high-performance computing environments . QSFP28 modules are standardized under MSA specifications (SFF-8665, SFF-8636) and IEEE 802.3 standards, ensuring interoperability for 100GBASE-SR4, LR4, and other 100G Ethernet PHYs .

Key Selection Criteria

1. Switch Compatibility

- Native QSFP28 ports: Some switches, like Cisco Nexus 9500 line cards, support QSFP28 natively .
- Backward-compatible ports: QSFP-DD or OSFP switches can accept QSFP28 modul...

Article Content

The Ultimate Guide to Cisco QSFP28 Transceiver Modules for 100G ...

Discover the wide range of high-density and low-power 100G Ethernet connectivity options offered by Cisco's QSFP28

A Comprehensive Guide to 100G Optical Transceiver 2025

Modern data centers rely on high-speed optical links, and 100G optical transceiver modules (especially the QSFP28 form factor) are

Intel® Ethernet QSFP28 Opti

Overview Intel® Ethernet QSFP28 Optic is an excellent choice for up to 100 meter reach in multimode fiber systems for high-speed

What Is QSFP28? Complete Guide for Network Engineers (2026)

What is QSFP28? Learn the 100G transceiver specs, module types, QSFP+ compatibility, and how to choose the right

Optical Switching Data Center Networks: Understanding Techniques

To provide the high-speeds and long-distance communications, the data centers have turned to fiber interconnections. With the

QSFP28 Transceiver: Complete 100G Connectivity Guide

Complete guide to QSFP28 transceivers: SR4, LR4, CWDM4 module types, switch compatibility, breakout cables,

SFP vs SFP+ vs QSFP28 vs QSFP-DD: 2026 Optical Buyer's Guide

SFP vs SFP+ vs QSFP28 vs QSFP-DD: Master optical transceiver selection for 1G to 800G AI networks with our lab

QSFP28 Compatible Switches: Complete Guide by Vendor

QSFP28 compatible switches explained: Cisco, Arista, Juniper, and NVIDIA platforms. Learn breakout support, FEC

10/25/40/100GbE Data Center Switches

S7600-48TE4Y2Q, 48-Port Ethernet L3+ Multi-Gigabit Switch, 48x 100M/1000M/2.5GBASE-T RJ45 Ports, with 4x 25G SFP28 and

Guide to QSFP28 Transceivers for 100G Data Center Connectivity

Guide to QSFP28 Transceivers for 100G Data Center Connectivity Using standard transceivers and cables is the most

AOC Cable Interface Classification: Differences Between SFP+, QSFP28 ...

In data centers, high-performance computing clusters, and high-speed network cabling, AOC cables (Active Optical

Navigating 100G QSFP28 Options: Key Technical Distinctions

This guide synthesizes technical specifications from IEEE/MSA standards, real-world deployment data from

A Complete Guide to Selecting 100G QSFP28 Optical Transceivers:

Choose the best 100g qsfp28 optical transceiver for your network by comparing compatibility, distance, fiber type, and

100G Data Center Switches

The UfiSpace S9110-32X is a high-performance data center switch with 32 x 100G QSFP28 ports, Broadcom Trident3-X7 silicon, and

High-Performance Managed Switch with 4x 100G QSFP28 and 6 x

Discover the high-performance managed switch with 4x 100G QSFP28 and 6 x 100GbE ports for the best networking

Guide to QSFP28 Transceivers for 100G Data Center Connectivity

QSFP28 transceivers offer the cost-optimized solutions for connecting 100G switches together in a rack or data

FS 100G QSFP28 Selection Guide

FS 100G QSFP28 transceivers offer our clients a wide variety of high-density and low-power 100 Gigabit Ethernet connectivity

Selection Guide for QSFP28 Optical Modules for Intelligent Computing ...

This guide provides a systematic selection process to help you choose the right QSFP28 module every time. You will learn how to

Guide to QSFP28 Transceivers for 100G Data Center Connectivity

Whether to use the QSFP28 transceivers or cables, they are indeed the ideal solution for switch vendors who need to

Intel® Ethernet QSFP28 Optic

Overview Intel® Ethernet QSFP28 Optics are an excellent choice for fiber systems in high-speed communications equipment. Both

100G QSFP28 Explained: Key Features, Applications, and How to

As data centers, cloud computing, and enterprise networks demand higher bandwidth and faster data transmission,

Overview of 100G Ethernet QSFP28 Transceivers

As networks keep scaling—more servers per rack, more east-west traffic inside data centers, bigger uplinks to spine

H3C S6825 Series Data Center Switches

H3C S6825 high-density intelligent switch series is developed for data centers and cloud computing networks. It provides powerful

Suggested 100G QSFP28 Transceiver Solutions for Data Centers

QSFP28 optical transceiver has various advantages. It has a smaller size than other 100G modules, thus it is ideal for

100G Optical Module Selection Guide: Advantages and Types of QSFP28

Explore the QSFP28 100G optical module, a vital component for high-speed network connections. Discover its unique

Contact Us

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