

QSFP Optical Module Cage



Overview

The frame of the QSFP module is a QSFP cage assembly; this part contains all and any necessary mechanical and electrical components for connection of the QSFP within the networking devices. Our complete quad small form factor pluggable, QSFP connector portfolio includes QSFP+, zQSFP, QSFP28, QSFP56 and QSFP 112G. We provide a large range of simple and customizable design options. Our QSFP portfolio provides a simple upgrade path from 10 Gbps NRZ to 112Gbps PAM-4 — including four. Stewart Connector QSFP-DD cages are constructed from a robust metal alloy, ensuring the secure placement of the QSFP module's electrical and optical components. The high-speed I/O surface. 28G NRZ, 56G PAM-4, 112G PAM-4, up to 100, 200 or 400 Gbps aggregate. Pervasive bandwidth requirements due to the tremendous growth in wireless devices are the catalyst for large-scale (200 Gbps). QSFP (or quad SFP) connectors provide four channels of data in one pluggable interface. Each channel is capable of transferring data up to 14 Gbps, supporting a total of 56 Gbps. These interconnects have 3x the density of SFP+ interconnects. Originally designed for 40G Ethernet (QSFP+), they have evolved to support 100G, 200G, and 400G speeds with new standards like QSFP28 and QSFP-DD.



Article Content

SFP vs SFP+ vs SFP28 vs QSFP: Výber správneho tvarového faktora

QSFP modules trade off a larger physical footprint for very high aggregate bandwidth per cage—perfect for spine switches and dense aggregation fabrics. When to pick QSFP: spine links, high-capacity

OSFP Transceivers: High-Density Optical Connectivity from 400G to

As hyperscale data centers shift toward AI-optimized fabrics and ultra-high-bandwidth switching platforms, the OSFP (Octal Small Form-Factor Pluggable) form factor has become central

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot

The Ultimate Guide to QSFP Cables | Types, Benefits

Unlike a simple copper patch cord, a QSFP cable can be: An active optical cable (AOC) with built-in transceivers at each end. A direct attach copper

QSFP, QSFP+, zQSFP, QSFP28 and QSFP56, QSFP

Each channel is capable of transferring data from 10 to 112 Gbps and supports a total of up to 400 Gbps per port. Our QSFP product portfolio includes cages in

QSFP-DD Transceiver Guide 2026: Complete 400G/800G Deployment

The QSFP-DD transceiver serves as an optical module which provides 400G and 800G connectivity through its 8 electrical lanes that enable double the transmission capacity of QSFP28.

SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver

QSFP-DD (Quad Small Form Factor Pluggable Double Density) optical module: QSFP-DD is a new module and cage/connector system similar to current QSFP,

SFP vs SFP+ vs SFP28 vs QSFP+ vs QSFP28: 2026

Compare SFP, SFP+, SFP28, QSFP+ and QSFP28 in this 2026 selection guide. Learn where each form factor fits, decision rules, cost and risk

QSFP Connectors/Cages/ Cable Assemblies

Stewart Connector QSFP-DD cages are constructed from a robust metal alloy, ensuring the secure placement of the QSFP module's electrical and optical components. Additionally, the cage

Differences Between QSFP-DD and QSFP+ / QSFP28

QSFP-DD cages in switches can accept QSFP112, QSFP56, and QSFP28 devices using 50G-PAM4 or 25G-NRZ modulation. However, when a

Understanding the OSFP Standard: The Open 400G/800G Optical

Introduction: The Shift from QSFP-DD to OSFP As data centers transition from 400G to 800G interconnects, bandwidth demand, power efficiency, and thermal constraints have forced the

OSFP Future Roadmap: 800G to 1.6T Data Center Planning 2025-2027

Explore the OSFP roadmap from 800G to 1.6T. Compare OSFP vs QSFP-DD and plan your 2025-2027 data center deployment with our complete infrastructure guide.

Introduction to 800G Optical Module

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) utilizes a dual-density, four-channel small hot-swappable optical module packaging. It adheres to IEEE802.3bs and QSFP

QSFP112 MSA

The QSFP112 connectors and cages will be backward compatible with legacy QSFP 40G (4x10G), 100G (4x25G) and 200G (4x56G-PAM4) modules,

Het volledige assortiment 1G-800G SFP-modules is online beschikbaar.

Full Range of 1G-800G SFP Modules Available Online Explore a full range of 1G-800G SFP modules online, including SFP, SFP+, SFP28, QSFP+, QSFP28 and QSFP-DD optical transceivers with

QSFP+ CONNECTORS AND CAGES

QSFP (or quad SFP) connectors provide four channels of data in one pluggable interface. Each channel is capable of transferring data up to 14 Gbps, supporting a total of 56 Gbps. These interconnects

QSFP28 Transceiver: Complete 100G Connectivity Guide (2026)

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot 100G QSFP28 optics.

BRKOPT-2699

800G Optical Modules: QSFP-DD or OSFP 51.2T, 64 port, 800G in 2RU Stacked cages (two modules) Both above and below the linecard Showing two modules inserted into upper and lower ports in a

Optical Transceivers

Supporting the OpenZR+ Multi-Source Agreement (MSA), the new 400G OpenZR+ QSFP-DD Optical Module from Molex provides a high level of performance and

800G Optical Modules Explained: Standards, Types

Discover everything about 800G optical modules—standards, packaging, types & applications. Learn how they power AI, HPC & next-gen

QSFP-DD Connector System

QSFP-DD Interconnect System supports legacy cables as well as upgraded plugs. The MSA had defined: QSFP-DD Module form factor 2-by-1 cage and connector

The Ultimate Guide to QSFP Cage Connectors and

What is a QSFP Cage, and How Does it Work? The frame of the QSFP module is a QSFP cage assembly; this part contains all and any

SFP MSA Standards: Technical Guide for Optical Modules

From SFP and QSFP to today's QSFP-DD and OSFP form factors, MSA specifications define how optical modules are mechanically, electrically, and logically designed—ensuring that products from

What is QSFP28? Guide to 100G Ethernet | NetAlly

SFF-8680: QSFP28 Module and Cage Is it possible to connect a 100G port to a 10G port? Yes, typically by using a QSA (QSFP to SFP) adapter. This allows a QSFP28 port to accept a

QSFP Optical Module Planning for the Future: Key Trends 2026-2034

Explore the dynamic QSFP optical module market, forecast to reach \$14.7 billion by 2025 with a 4.5% CAGR. Discover key drivers, trends, and applications in high-speed networking and data

All About QSFP Cables, Connectors, and More

A press-fit cage is assembled over the connector to guide and latch the QSFP cable assembly. For some QSFP arrays, the cage is integrated with

Contact Us

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