OEM QSFP optical modules SFP



Overview

OEM-compatible optical transceivers from 1G to 800G—SFP, SFP28, QSFP28, QSFP-DD & OSFP. MSA-compliant, TAA-certified, lifetime warranty. Find your module today.

Key Takeaways

Certified QSFP and SFP optical modules are MSA-compliant, hot-pluggable transceivers designed for reliable, high-speed networking across data centers, enterprise, and carrier networks.

Overview of SFP and QSF

P ModulesSFP (Small Form-factor Pluggable) and QSFP (Quad Small Form-factor Pluggable) modules are widely used optical transceivers that convert electrical signals to optical signals for high-speed data transmission.

SF

P modules typically support 1G to 25G speeds (SFP, SFP+, SFP28), while QSFP modules support 40G to 400G and beyond (QSFP+, QSFP28, QSFP-DD, OSFP) for high-density switching and core network applications. Certification and ComplianceMSA (Multi-Source Agreement) compliance is the key certification for optical modules.

MS

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As define mechanical, electrical, and thermal specifications to ensure interoperability across different vendors and host devices, such as Cisco, Juniper, or Dell switches and servers. Over 90% of pluggable optics in data centers follow MSA guidelines, ensuring modules are plug-and-play, reliable, and compatible. Key Features of Certified ModulesHot-pluggable: Can be inserted or removed without powering down the system.

Form factors: SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP-DD, OSFP. Connector types: LC, MPO, MPO-16, SC. Reach options: From 150 meters to 120 km depending on module type and fiber type.

Modulation: NRZ for SFP+ and SFP28; PAM4 for SFP56 and QSFP-DD for higher speeds. Diagnostics: Advanced digital monitoring for temperature, voltage, and optical power. Warranty: Many certified modules come with limited lifetime or extended warranties.

Choosing the Right Module

Speed and Bandwidth: Match the module to your port speed (e.g., SFP28 for 25G, QSFP28 for 100G). Distance Requirements: Select based on reach (short-range SR, long-range LR, extended-range ER). Host Compatibility: Ensure MSA compliance and check FEC support for PAM4 optics.

Thermal Considerations: OSFP modules are preferred for high-power 800G+ deployments, while QSFP-DD suits standard data centers. Breakout Capability: QSFP modules can split into multiple SFP lanes for flexible network design. Trusted VendorsFS: Offers 40G QSFP+ modules with 150m to 80km reach for data centers.

Pivotal Optics: Provides MSA-compliant SFP, SFP28, QSFP28, QSFP-DD, and OSFP modules with lifetime warranty.

QSFPTE

K: Online store for compatible optical transceivers with easy ordering.

Certified QSFP and SF

P modules ensure interoperability, reliability, and scalability for modern networking environments, making them essential for enterprise, carrier, and data center deployments.

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Article Content

Optical Transceivers SFP SFP28 QSFP28 QSFP-DD 1G to 400G Range

OEM-compatible optical transceivers from 1G to 800G—SFP, SFP28, QSFP28, QSFP-DD & OSFP. MSA-compliant, TAA-certified, lifetime warranty. Find your module today.

40G QSFP+ Transceiver Modules | Optical Transceivers

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for high-density switching, routing and data center applications.

Topstar -

Topstar -- Your Excellent One-stop Optical Network Transceiver Manufacturer in the World Topstar is a leading optical modules manufacturer and optical solutions provider.

Wholesale Optical Transceivers Module | 100G QSFP28, 40G QSFP

Unitekfiber, a global optical transceiver wholesaler, provides a comprehensive portfolio of MSA-compliant transceivers—including 10G SFP+, 40G QSFP+, 100G QSFP28, 200G QSFP

100GBASE QSFP-100G Modules Data Sheet

The Cisco QSA Module converts a QSFP28 port to an SFP28, SFP+ or SFP port. This flexibility allows customers a cost-effective transition to high

Optical Transceivers | Network Solutions for AI Cluster,

Learn the differences between 200G DAC and 200G AOC cables, including QSFP56 and QSFP-DD form factors, transmission distance, power consumption,

100G QSFP28 Transceiver Modules | Optical

The 100G QSFP28 module solution provides high-performance 100GbE connectivity for data centres, enterprise core & distribution layers, computing networks and

SFP/SFP+/QSFP28/QSFP-DD Transceivers | OEM

From legacy 1G SFP uplinks to hyperscale 800G OSFP AI clusters, our modules are built on MSA standards and powered by top-tier DSP chips (Broadcom/Inphi).

OEM SFP Modules Explained: Compatibility, Cost and Use Cases

Understand OEM SFP modules, pricing, compatibility, lifespan, and differences vs third-party optics. Learn what engineers actually use in networks.

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SFP vs SFP+ vs QSFP28 vs QSFP-DD: 2026 Optical

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

The Ultimate Guide to SFP Modules (2026): Types,

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the

Buy Transceivers – SFP, SFP+, and QSFP Modules

Transceiver Modules SFP Transceiver Modules Here you can find SFP, GBIC and all other types of modules for multi-mode as well als single-mode fiber-optics, and even Copper Ethernet (1000Base-T

SFP, QSFP, QSFP-DD & OSFP Cages: The 10G-to-800G Selection

How to choose pluggable cages: SFP vs QSFP vs QSFP-DD vs OSFP, belly-to-belly stacking, integrated vs riding heat sinks, press-fit vs solder, and TE/Molex cross-reference.

Top Optical Transceiver Modules for Data Center Applications

Explore the best optical transceiver modules for modern data centers, including SFP+, QSFP28, QSFP-DD, and OSFP. Learn how to select the right module for speed, distance, and

Maximizing Network ROI: A Total Cost of Ownership Analysis of Third ...

Optical transceivers, the ubiquitous SFP, SFP+, and QSFP modules, represent a significant and often overlooked operational expenditure. Industry analysis indicates that networking optics can consume

SFP SFP Plus QSFP Modules: Practical Network Cabling Guide

SFP, SFP+, and QSFP modules are hot-swappable transceiver modules that plug into matching cages on switches, routers, network cards, and storage controllers. They convert between electrical signals

DAC vs AOC vs Fiber + Optics Buying Guide | How to Choose the

Not sure whether to choose DAC, AOC, or Fiber + Optics? Learn the differences, transmission distances, applications, and recommended optical modules for data centers, enterprise

Top 10 Optical Transceiver Manufacturers in the World

Sourcing optics for your data center? Discover the top 10 optical transceiver manufacturers in 2026. Compare global giants and factory-direct OEM alternatives.

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