

QSFP Active Optical Components Available Now



AI Overview

QSFP optical modules are available in multiple speeds and form factors, including 40G, 100G, 200G, 400G, and 800G, from vendors like Cisco, QSFPTEK, and FS. Overview of QSFP Modules QSFP (Quad Small Form-factor Pluggable) modules are hot-pluggable optical transceivers that provide four independent transmit and receive lanes in a single module, enabling high bandwidth density without increasing port count. They are widely used in switches, routers, servers, and storage systems over fiber optic networks. Modern QSFP modules often include Digital Diagnostic Monitoring (DDM) or Digital Optical Monitoring (DOM) for real-time monitoring of temperature, voltage, transmit/receive power, and laser bias current, which is critical for 24/7 data center operations.

Available Speeds and Types

- 40G QSFP+**: Common for legacy high-speed Ethernet networks, available from vendors like FS.
- 100G QSFP28**: Supports 100G Ethernet and is widely used in enterprise and data center networks.
- 200G and 400G QSFP56/QSFP-DD**: Designed for modern AI clusters, HPC, and high-density data centers, supporting both DAC (Direct Attach Copper) and AOC (Active Optical Cable) options.
- 800G QSFP-DD and OSFP**: Cisco offers 800G ZR/ZR+ coherent optics modules capable of transmitting 800G traffic over DWDM links up to 120 km (800ZR) or beyond 1000 km (800G ZR+), ideal for metro, regional, and data center interconnects.

Form Factors and Compatibility QSFP modules conform to Multi-Source Agreement (MSA) standards, ensuring mechanical and electrical compatibility across different vendors. Common form factors include:

 - QSFP+ (40G)
 - QSFP28 (100G)
 - QSFP56 (200G)
 - QSFP-DD (400G/800G)
 - OSFP (400G/800G, with integrated heat sink options for high-power modules).

Vendors and Sources

 - Cisco**: Offers high-performance 800G QSFP-DD and OSFP coherent optics for long-distance DWDM app...

Article Content

QSFP, QSFP+, and QSFP28: What You Need to Know

If you're looking for the most advanced optical module package on the market, look no further than QSFP. QSFP+ and QSFP28 are the two latest

Official BlueOptics SFP manufacturer

QSFP-DD, QSFP28, SFP28 available from stock. LC, SC, ST and E2000 Patch Cords with OM2, OM3, OM4 or SM G.652.D Fiber up to 50 Meters. CBO offers a

Bulk Ethernet Cables: Cat5e, Cat6, Cat7 Bulk Cables

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

40Gb/s QSFP+ Active Optical Cables

Amphenol provides a series of 40G QSFP+ optical module products, including SR4, eSR4, IR4, LR4, ER4 lite, AOC and AOC breakout series.

QSFP28 Transceiver: Complete 100G Connectivity

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

SFF-8679 Specification for QSFP+ 4X Hardware and Electrical ...

Figure 6-2 and Figure 6-3 provide example host board schematics for an optical QSFP+ module and for a QSFP+ copper cable plug respectively. Optical modules may have CDRs and equalizers in the

SFP vs QSFP: Key Differences Explained

SFP, SFP+, QSFP and QSFP+ Transceivers There's a lot to consider when building a fiber optic network. There are so many different ways to approach optical communication, and every device has

100GBASE QSFP-100G Modules Data Sheet

The QSFP-100G-B20U4-I and QSFP-100G-B20D4-I operate in pairs, with one required at each end of the optical fiber. The QSFP-100G-B20U4-I and

SFP, QSFP, QSFP-DD, OSFP Active Optical Cable Assemblies

SFP, QSFP, QSFP-DD, OSFP ACTIVE OPTICAL CABLE ASSEMBLIES Our active optical cable assembly portfolio provides improved cable flexibility and longer reach as compared to both

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

Design for the speed you need, today and tomorrow with TE Connectivity's portfolio of QSFP connectors including QSFP+, zQSFP, QSFP28 and QSFP56

QSFP28 Transceiver: Complete 100G Connectivity Guide

QSFP28 Active Optical Cables (AOC) AOCs, or Active Optical Cables, integrate optical transceivers directly with fiber cable assemblies, making

Bulk Ethernet Cables: Cat5e, Cat6, Cat7 Bulk Cables

Buy Bulk Ethernet Cables - Cat5e, Cat6/6a, Cat7 cable 1000ft (UTP/SFTP, 305 metres, blue/yellow), multiple jacket colour of bulk cable available.

QSFP Connector System

QSFP Connector System 28G NRZ, 56G PAM-4, 112G PAM-4, up to 100, 200 or 400 Gbps aggregate. Offer low insertion loss and cross talk plus excellent

Spec Sheet

QSFP+ 40G Siemon 40G QSFP+ Active Optical Cable (AOC) assemblies offer a highly reliable and cost-effective alternative to transceiver assemblies available in lengths ranging from 0.5M to 100M, beyond

QSFP and QSFP+ Interconnect Solutions

Molex's QSFP+ cable assemblies are designed to accommodate stacked and ganged connector configurations in extremely high-density requirements. This system will support 10 G

QSFP-DD Optical Transceivers – MapYourTech

The QSFP-DD Multi-Source Agreement group was established in 2017 with participation from major networking equipment manufacturers, optical

QSFP Cables Explained 2025: Types, DAC vs AOC,

Learn about QSFP cables: QSFP+, QSFP28, QSFP56, QSFP-DD. Compare DAC vs AOC, speeds, lengths, and use cases in data centers.

Active Optical Cable Assemblies

TE's Active Optical Cable Assemblies support high-performance computing, data center, and networking interconnect applications. These cable assemblies feature a comprehensive range of

The Ultimate Guide to QSFP+ Cables: Everything You

The two main types of QSFP+ cables are active optical cables and passive copper cables. Passive Copper Cables: They lack any active

HPE Aruba Networking 100G QSFP28 to QSFP28 15m Active Optical

HPE Networking Transceiver Options HPE Aruba Networking 100G QSFP28 to QSFP28 15m Active Optical Cable (R0Z28A) Overview .

QSFP+ 40G 10m AOC Cable

Buy QSFP+ 40G active optical cable (10m) for short-distance data center connectivity. Supports 40G/10G speeds, OM3 fiber, and works with Cisco,

All About QSFP Cables, Connectors, and More

QSFP interconnects include direct attach copper (DAC), active optical cables (AOC), optical modules, and active copper cables (ACC). DACs are the

QSFP 20 Meter AOC Active Optical Cable

The BlueOptics QSFP 40G AOC is made from high-quality materials and features components from leading manufacturers like TE Connectivity and Analog Devices. These ensure precise signal

QSFP28 Active Optical Cable | Optical Interconnect

Amphenol's 100G QSFP28 to QSFP28 Active Optical Cable assemblies are a reliable, cost and power efficient, integrated solution which is

The Ultimate Guide to Cisco QSFP Optical Transceiver

Master networking efficiency with fibermall about: The Ultimate Guide to Cisco QSFP Optical Transceiver Modules. Optimize your connections now!

Comprehensive Guide to QSFP - MapYourTech

Comprehensive Guide to QSFP Technology Comprehensive Guide to QSFP Technology Quad Small Form-Factor Pluggable Optical Transceivers

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