

40G Optical Module Original Product



AI Overview

40G QSFP+ optical modules provide high-speed, low-power, and versatile connectivity for data centers, enterprise networks, and high-performance computing applications.

Overview

40G QSFP+ (Quad Small Form-Factor Pluggable) optical modules are designed for 40 Gigabit Ethernet connectivity. They are hot-swappable, compact, and compatible with IEEE 802.3ba standards, supporting high-speed data transmission over multimode or single-mode fiber networks (Cisco, Amphenol, FS).

Types and Transmission Distances

40G QSFP+ modules come in various types depending on fiber type and reach:

- Multimode (MMF): SR4, eSR4, supporting 100m–300m over OM3/OM4 fibers (Cisco, Amphenol, C-LIGHT, Solid Optics)
- Single-mode (SMF): LR4, ER4, ER4 lite, supporting 2km–80km (Amphenol, C-LIGHT, Solid Optics)
- Active Optical Cables (AOC) and DAC breakout cables for short-range connections (Amphenol, Solid Optics) C-LIGHT modules offer extended distances up to 90km, suitable for metropolitan area networks and long-haul applications .

Standards and Compatibility...

Article Content

Nov 08, 2025

40G QSFP+ Optical Transceiver Modules,FAQ For 40G Optical

QSFP-40G-LR4 and QSFP-40G-ER4 module usually uses WDM technology to realize transmission of optical signals over long

Feb 04, 2026

Cisco 40GBASE QSFP Modules Data Sheet

This module can be used for native 40G optical links over 12-fiber parallel cables with MPO/MTP female connectors or

Feb 04, 2026

40Gb/s QSFP+ Active Optical Cables

Amphenol provides a series of 40G QSFP& #43;optical module products, including SR4, eSR4, IR4, LR4, ER4 lite,

Feb 26, 2026

QSFP-40G-LR4: QSFP+ 40G LR4 Optical Module Single-Mode

Explore the QSFP-40G-LR4 a 40G LR4 single-mode module with CWDM for 10Km extension. Cisco compatible - buy now for high

Apr 08, 2026

40Gbps QSFP+ Optical Modules

40Gbps QSFP+ Optical Modules QSFP-40G-LR4 QSFP-40G-SDLC-PAM QSFP-40G-SR-BD (02311FPA) QSFP-40G-eSR4 QSFP

Dec 23, 2025

40Gb/s QSFP+ Transceiver | Optical Interconnect | Amphenol

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

Oct 24, 2025

40G QSFP+ Optical Modules: A Complete Guide to Choosing for Data

40G QSFP+ SR-BD vs. LR4-S:Complete Guide for Data Center Upgrades While 100G and 400G technologies

Jun 19, 2026

40G QSFP+ Cable and Transceiver Modules Data Sheet | FS

40G QSFP+ Cable and Transceiver Modules Data Sheet Product overview The 40G transceiver module portfolio offers

Jun 02, 2026

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

Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data

Nov 04, 2025

Detailed description of the types of 40G optical modules for ...

Typically, 40G optical modules with a wavelength of 850nm are used with multimode fiber optic patch cords for short

Jul 30, 2025

Arista Optics Modules and Cables

Arista's Optical Modules and Cable portfolio offer a wide variety of high-density and low-power 800G (dual 400G), 400G, 200G,

Jun 15, 2026

Cisco 40GBASE QSFP Modules Data Sheet

Cisco QSFP-40G-SR4 The Cisco 40GBASE-SR4 QSFP Modules support link lengths of 100 meters and 150 meters, respectively, on

Feb 10, 2026

Genuine Cisco FET-40G

This module can be used for native 40G optical links over 12-fiber ribbon cables with MPO/MTP

Mar 19, 2026

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Jul 09, 2026

40G QSFP+ PSM4 2km/10km

40G QSFP+ PSM4 2km/10km 40G QSFP+ PSM4 optical transceiver modules include 40GE QSFP+ PSM4 2km, 40GE QSFP+

Jun 26, 2026

40G QSFP+ PSM4 DML 1310nm 2km/10km Optical Transceiver

GIGALIGHT's 40G QSFP+ PSM4 optical transceiver module is designed for medium to long-distance interconnections in data

Nov 10, 2025

JTOPTICS 40G Transceivers | High-Performance 40G Solutions

40G Qsfp+ Psm4 Transceiver 4X10Gbase-Lr Qsfp+ 1310Nm 10Km Dom Mtp®/Mpo-12 Smf Optical Transceiver Module JTOPTICS®

Aug 18, 2025

In-Depth Guide to 40G QSFP+ Optical Modules, DAC,

40G optical modules are increasingly widely used in data centers. 40G optical modules can reach up to

May 04, 2026

Panduit Cable Ordering Guide For Cisco 40G Optics

This module can be used for native 40G optical links over 12-fiber parallel cables with MPO/MTP female connectors or in a 4x10G

Apr 08, 2026

QSFP+ 40G LR4 Explained: Your Ultimate Guide to 40G Long-Reach Optics

This guide will demystify the 40G LR4 QSFP+, exploring its technology, advantages, and how to select the best one

Oct 04, 2025

40G Optics

All Juniper 40G optics are compliant with key industry standards and specifications for seamless interoperability in multivendor

Apr 03, 2026

6 Common 40G QSFP+ Optical Module Models

Third, the summary Finally, the emergence of 40G optical modules to simplify the network architecture, reducing the

Jan 01, 2026

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

Feb 14, 2026

40GBASE ER4 QSFP+ Transceiver | 40G DWDM, 40km LC Optical Module

Discover 40GBASE ER4 QSFP+ transceivers, 40G DWDM, and LC transceivers. Ideal for high-performance networking with 40km

Aug 08, 2025

FAQ for 40G optical module

QSFP-40G-LR4 and QSFP-40G-ER4 module usually uses WDM technology to realize transmission of optical signals over long

May 08, 2026

40G Optical Transceivers and Cables Portfolio | FS

The series of product adopts LC or MTP/MPO connector and operates over Single Mode or Multimode optical fiber. They can be

Apr 22, 2026

40G QSFP LR4 10km

40G QSFP LR4 10km • Uncooled 4x10Gb/s CWDM transmitter • Up to 10.3125Gbps data rate per wavelength • QSFP+ MSA compliant

Contact Us

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