

40G optical module long-distance 70km



Overview

Product description The QSFP-4080-ZR4 is a long range single-mode 40G QSFP+ optical module compatible with the 40GBase-ZR4 specifications. It uses 4 CWDM 10G lasers running 1295~1310nm and combining them in a built-in mux/demux. 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. Trusted by 260K+. The Cisco ® 40GBASE QSFP (Quad Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 40 Gigabit Ethernet connectivity options for data center, high-performance computing 00networks, enterprise core and distribution layers, and service provider. QSFP 40G 80km transceivers are designed for long-distance 40Gbps links where standard LR4 (10km) or ER4 (40km) optics cannot meet reach requirements. They are typically deployed in metro networks, inter-campus backbones, and data center interconnect (DCI) scenarios that require up to 80km. The newest wide adopted high speed interface for optical transceivers is the QSFP+ (Quad SFP+) that offers aggregated optical speeds of 40G. The modules most commonly used in 40G solutions include 40GBASE-LR4 QSFP+, 40GBASE-SR4 QSFP+, and 40G LR4 PSM. Engineered for reliability and scalability, these transceivers ensure efficient and seamless communication across various network infrastructures.

Article Content

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® 40G SR4 QSFP+ transceiver is a high performance module for

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

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

QSFP+ 40G transceivers

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40GBASE-LR4 Optical Module: Reliable Long-Distance

Applications of 40GBASE-LR4 Optical Modules The 40GBASE-LR4 module is widely used in enterprise networks, metropolitan area networks

QSFP-40G-ER4 Demystified: Your Guide to 40Gbps

The QSFP-40G-ER4 (Quad Small Form-factor Pluggable 40G Extended Reach) is a hot-swappable, optical fiber transceiver module. It's

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 40Gbps to help data centers relieve operational

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

QSFP 40G 80km: Complete Guide to 40G Long-Distance Optics

This guide explains what QSFP 40G 80km modules are, how they work, their key specifications, and when they are the right choice for long-distance optical networking.

Cisco 40GBASE QSFP Modules Data Sheet

This module can be used for native 40G optical links over 12-fiber ribbon cables with MPO/MTP connectors or in 4x10G mode with parallel-to-duplex fiber breakout cables for connectivity

X-linkit 40G Optical Modules: The Complete Guide for High-Speed ...

X-linkit's 40G portfolio solves a critical market pain point: the gap between short-reach limitations and the high cost of long-haul 100G solutions. Our full-distance matrix allows network

QSFP+ 40G ZR4 Optical Transceiver Module 80km

Asterfusion 40G QSFP+ ZR4 optical transceiver modules support 40GBASE-ZR4 Ethernet. QSFP+ 40G 80km optical modules are designed for Ethernet,

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

SFP vs SFP+ vs SFP28 vs QSFP+ vs QSFP28: 2026 Optical Transceiver Selection Guide
A practical, engineer-friendly guide to choosing the

Cisco 40GBASE QSFP Modules Data Sheet

QSFP-40G-SR4-S does not support FCoE. Cisco QSFP-40G-SR4 The Cisco 40GBASE-SR4 QSFP Modules support link lengths of 100 meters and 150 meters, respectively, on laser

Telecom Optical Module Market Research Report 2033

The Telecom Optical Module market was valued at \$24.8 billion in 2025 and is projected to reach \$47.3 billion by 2033, growing at 8.4% CAGR.

QSFP+ 40G LR4 Explained: Your Ultimate Guide to

QSFP+ 40G LR4 enables high-speed, long-range data transfer for data centers, enterprises, and telecoms, supporting reliable 40G network growth

400G Optical Modules Explained: SR4 Vs. DR4 Vs.

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center

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.

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

Typically, 40G optical modules with a wavelength of 1310nm are used with single-mode fiber patch cords for long-distance data transmission. On the market, common long distance 40G...

JTOPTICS 40G Transceivers | High-Performance 40G Solutions

40G Transceivers by JTOPTICS deliver high-speed optical data transmission and are ideal for data centers, enterprise networks, and telecom applications. Engineered for reliability and scalability,

QSFP+ 40G LR4 Explained: Your Ultimate Guide to

At the heart of this evolution lies a critical component: the QSFP+ 40G LR4 optical transceiver. This powerful little module is the workhorse for high

40G QSFP+ Optical Transceivers Complete Guide

How 40G QSFP+ optical transceivers boost performance in data centers and telecom networks. Learn about types, use cases, and cost-saving benefits.

QSFP 40G ER4 Transceiver: 40km Long-Reach Optical Solution

Discover QSFP 40G ER4 transceivers for 40km long-distance transmission. Learn features, use cases, compatibility, pricing, and how to choose the right module.

QSFP 40G LR4 Transceiver: 10km Single-Mode Optical Solution

Compared with 40G SR4 modules limited to multimode fiber and short distances, QSFP 40G LR4 enables long-distance transmission over standard single-mode fiber using CWDM technology at

40G QSFP+ Modules

High-performance 40G QSFP+ Modules deliver scalable bandwidth, energy efficiency, and reliable network connectivity for data centers and enterprise

High-Speed 40G QSFP+ Optical Transceivers for Long

Conclusion The 40G QSFP+ 10~40km optical transceivers from Gezhi Photonics offer high-speed and long-distance data transmission capabilities,

QSFP-40G-ER4 40Gbps QSFP+ Transceiver, SM,

The QSFP+ ER4 transceivers are high performance, cost effective modules supporting data rate of 40Gbps and 40km transmission distance with SMF.

QSFP+ 40G LR4 CWDM 10km SMF Optical

Asterfusion QSFP+ 40G LR4 optical transceiver adopts LC connector and links up to 10km over SMF. 40GBASE LR4 is ideal for 40G Ethernet applications, such as

40G QSFP+ Modules: Specs, Types & Selection Guide

Effective troubleshooting of 40G QSFP+ links requires systematic analysis of optical power, fiber quality, cabling topology, and module compatibility. The following covers the most common failure scenarios

40GBASE-LR4 QSFP+ Transceiver

EDGEOPTIC 40GBASE-LR4 QSFP+ transceiver: 10km single-mode fiber, CWDM 1271-1331nm, 6.6dB link budget, 44.8 Gbps. IEEE 802.3ba compliant, LC

Contact Us

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