

The 40G optical module is a 10 Gigabit Ethernet module



Overview

Each 10-gigabit lane of this module is compliant to IEEE 10GBASE-SR specifications. This module can be used for native 40G optical links over 12-fiber ribbon cables with MPO/MTP connectors, or in 4x10G mode with ribbon to duplex fiber breakout cables for connectivity to four. 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 (HPC) networks, enterprise core and distribution layers, and service provider. 10-Gigabit Ethernet/40-Gigabit Ethernet LAN/WAN OTN PIC with QSFP+ (PTX Series) For information about which FPCs support these PICs, see PTX Series PIC/FPC Compatibility. Increased adoption of 10 Gigabit Ethernet servers coupled with applications requiring higher bandwidth is accelerating the need for dense 40 Gigabit. This hot-pluggable QSFP+ transceiver is engineered to transmit 10Gbps data streams over single-mode fiber (SMF) for link lengths up to 40 kilometers, making it indispensable for metro Ethernet, campus backbone networks, enterprise data center interconnects (DCIs), and telecom access networks. The 40G QSFP+ optical transceiver – often called a 40g fiber optic transceiver – is a hot-pluggable, high-density module that bundles four independent 10Gbps channels into a single 40Gbps link. Each channel can: This quad-channel design gives data center switches and routers a higher port density.

Article Content

Huawei OPTICAL Price

The Best Huawei Products Price List Checking Tool ICT-Router, Switch, Optical Transmission & Access Network

Optical Module Encapsulation Types

SFP/eSFP Optical Module Small form-factor pluggable (SFP) optical modules are compact, hot-swappable, low-speed optical modules. They comply with the specifications defined in the multi

10-Gigabit Ethernet/40-Gigabit Ethernet LAN/WAN OTN

The PIC supports either 10-Gigabit Ethernet or 40-Gigabit Ethernet ports. You cannot configure both 10-Gigabit Ethernet and 40-Gigabit Ethernet ports on the same PIC.

Gigabit SFP Module: A Complete Guide to 1G SFP Transceivers

A gigabit SFP module (1G SFP module) is a Small Form-factor Pluggable (SFP) transceiver designed to support 1Gbps Ethernet transmission by converting electrical signals from a network device into

OSFP vs. QSFP vs. SFP: Which Is Right for You?

The history of these modules is a story of continuous innovation. The SFP was an early leader, offering a compact and versatile solution for 1 Gigabit

Optical Transceiver Module

400G QSFP-DD SR8 MPO Optical Transceiver The 400G QSFP-DD SR8 transceiver is a high-speed optical module designed for 400 Gigabit Ethernet

Amphenol SF-QSFPLOOPBK-001 QSFP+ 40G Loopback Adapter Module

Genuine Amphenol QSFP+ loopback adapter modules provide the ideal 40-Gigabit rated port testing solution for both QSFP and QSFP+ enabled ports. This low-profile active QSFP+ loopback cable

SFP-10G-ER Explained: Powering 40km 10Gbps Optical

This comprehensive guide dives deep into the SFP-10G-ER optical transceiver module. Learn its technical specifications, key applications,

The 2026 Network Architect's Guide to Adapter Converter Modules

The 40G Era: QSFP+ to SFP/SFP+ Adapter Converter Module (QSA) The Quad to Single Form-factor Pluggable Adapter (QSA) was one of the first mainstream adapter converter modules,

What is QSFP & QSFP+ Transceiver: An Ultimate Guide

What is a QSFP & QSFP+ Transceiver? QSFP stands for Quad Small Form-factor Pluggable. By integrating four-lane signals into a single module, it

High-Performance Networking: A Deep Dive into the Cisco QSFP-40G

The QSFP-40G-LR4-S is a cornerstone of modern high-speed data architecture, providing a robust solution for 40 Gigabit Ethernet connectivity over long distances. In today's data-driven

Microsoft Word

Each 10-gigabit lane of this module is compliant to IEEE 10GBASE-SR specifications. This module can be used for native 40G optical links over 12-fiber ribbon cables with MPO/MTP connectors, or in

QSFP-40G Universal Transceiver

The Arista QSFP-40G Universal transceiver is a pluggable optical transceiver in an industry standard QSFP+ form factor that can operate with both duplex multi-mode and single-mode fiber.

Cisco 40GBASE QSFP Modules Data Sheet

The Cisco QSFP 40-Gbps BiDi transceiver offers customers a compelling solution that enables reuse of their existing 10 gigabit duplex MMF infrastructure for migration to 40 Gigabit Ethernet connectivity.

Optical Transceiver Manufacturer, Huawei S6720s

Next, we will introduce Huawei S6720S-26Q-LI-24S-A switch and optical module matching solution. Huawei S6720S-26Q-LI-24S-A switch belongs to 10 Gigabit

Differences Between Optical Modules SFP, SFP+, CFP, XFP, QSFP

Compared with SFP+, the transmission rate of QSFP+ optical modules can be up to four times that of SFP+ optical modules. QSFP+ optical modules can be directly used in 40G network

QSFP 40G: Which Transceiver Type Best Suits Your Needs?

Among the most pivotal technologies facilitating this shift is the QSFP 40G (Quad Small Form-factor Pluggable) optical transceiver. This compact, hot-pluggable module is the backbone of

Gigabit Ethernet

Gigabit Ethernet was the next iteration, increasing the speed to 1000 Mbit/s. The initial standard for Gigabit Ethernet was produced by the IEEE in June 1998 as

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 right

40G QSFP+ Optical Transceivers Complete Guide

The 40G QSFP+ optical transceiver - often called a 40g fiber optic transceiver - is a hot-pluggable, high-density module that bundles four independent 10Gbps

Optical Modules Market Research Report 2034

Fourth, enterprise digital transformation initiatives are compelling organizations to upgrade from legacy copper-based 10 Gigabit Ethernet to fiber-based 25G and

Optical Fiber ROAD LIFE | SFP vs SFP+: "Can anyone tell me

OCR: 1G SFP SFP TRANSCEIVER TYPES 10G 25G SFP28 SFP28 SPP SFP+ Gigabit Ethernet Upt Up 1.25 Gbps 10 Gigabit Ethernet Up Upto 10.3 Gbps RJ45 RJAS 25 5GigabitEthernet Gigabit

Optical Module Encapsulation Types

Hello everyone! This post will introduce you to the optical module encapsulation types. I believe you are interested. SFP/eSFP Optical Module Small form-factor

40GBASE-LR4 QSFP+ 1310nm 10km Transceiver Datasheet | FS

QSFP+ transceiver modules are designed for use in 40 Gigabit Ethernet links and 4x10G OTN client interfaces over single mode fiber. They are compliant with the QSFP+ MSA, IEEE 802.3ba

10G SFP+ Module, 10Gbase LR Optical Gigabit Ethernet Transceiver

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

QSFP is the abbreviation of Quad (4-channel) small form-factor pluggable transceiver, which is widely used in 40G Ethernet data transmission, it is a

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