

Inquire about 40G optical transceiver module



AI Overview

40G optical modules are high-speed, hot-pluggable transceivers that aggregate four 10Gbps channels into a single 40Gbps link, supporting short- to long-range connectivity in data centers and enterprise networks.

Key Features

Form Factor and Interface: Most 40G modules use the QSFP (Quad Small Form-Factor Pluggable) or QSFP+ form factor, allowing four independent 10Gbps channels to be combined into a single 40Gbps link. They are hot-swappable and support I2C-based digital diagnostics for real-time monitoring of temperature, voltage, optical power, and bias current.

Standards Compliance: 40G modules comply with IEEE 802.3ba/bm standards and QSFP Multisource Agreement (MSA), ensuring interoperability across vendors and network devices.

They support multiple protocols, including Ethernet, Fibre Channel, InfiniBand, and SONET/SDH.

Fiber Types and Reach:

Short-Range (SR4): Uses multimode fiber (MMF) with 850nm VCSEL lasers, ideal for intra-data center links. Standard reach is 100–150 meters, with extended versions up to 400 meters on OM3/OM4/OM5 fibers.

Long-Range (LR4/ER4): Uses single-mode fiber (SMF) with 1310nm or 1550nm DFB lasers. LR4 modules typically reach 10 km, while ER4 modules can extend up to 40 km, suitable for metro or regional networks.

CSR Modules: Duplex LC connectors for multimode fiber, supporting intermediate distances of 300–440 meters.

Connectivity Options: Modules support parallel fiber links with MPO/MTP connectors or duplex LC connections. Some modules allow 4x10G breakout for connecting to multiple 10G interfaces.

Power and Efficiency: Power consumption varies by type, typically ≤ 1.4 –3.5W, making them energy-efficient for high-density deployments.

Applications

Data Centers: High-density uplinks, top-of-rack (ToR) switches, and spine-leaf architectures.

Enterprise Networks: Core and dist...

Article Content

40GBASE-LR4 QSFP+ Optical Transceiver Module

Designed for 40 Gigabit per second communications, the FTL4C1QE2C QSFP+ transceiver modules are suitable for single mode fiber connections and adhere to QSFP+ MSA and IEEE 802.3ba 40GBASE

40G & 100G Transceiver Modules | Allied Telesis

40G Transceiver Modules QSFP+ Direct Attach Cables Suitable for in-rack connections between QSFP+ ports, on all QSFP+-compatible products.

200G Optical Transceivers | High-Speed QSFP56 Modules for Data

Boost network performance with 200G optical transceivers. Designed for data centers, 5G, and cloud infrastructure, our QSFP56 modules deliver low latency, high reliability, and seamless compatibility.

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

This article provides a comprehensive comparison of mainstream optical transceivers, including SFP, SFP+, QSFP+, QSFP28, and QSFP-DD. It explains their technical differences,

40G Optical Transceivers and Cables Portfolio | FS

Product Overview The 40G transceiver module portfolio offers customers a wide variety of high-density and low-power 40 Gigabit Ethernet connectivity options for data center, high-performance computing

K950 Automatic Optical Module Wire Bonder Applications

K950 Automatic Optical Module Wire Bonder for 40G/100G Optical Transceiver Packaging As AI computing, cloud networking, data centers, and high-speed telecommunications continue expanding

Fiber Optic Transceiver at | Transceiver Module in New Delhi | ID ...

A fiber optic transceiver is a hot-pluggable hardware module that converts electrical network data into light pulses (transmit) and incoming optical signals back into electrical data (receive). It bridges

QSFP-40GB Transceivers Guide and Compatibility

QSFP+ 40Gb transceivers guide. Learn specs, compatibility, and benefits for efficient networking solutions.

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

40G QSFP Modules-Optical Transceivers

QSFP 40G LR4 The QSFP+ optical module is specifically designed for 40GBASE Ethernet, supporting a throughput of up to 10km over single-mode fiber (SMF) with a wavelength of 1310nm through duplex

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 centers. Expert technical support & wholesale pricing.

republic of liberia 40G 100m QSFP+ BiDi 850/910nm Duplex LC Hot ...

JIAXUN JQ-BL859140-SRC 40G QSFP+ BiDi Hot Pluggable Optical Transceiver Module (MMF, 850/910nm, 100m, Duplex LC) The JQ-BL859140-SRC is a Four-Channel Pluggable, LC Duplex,

40G QSFP+ Optical Transceivers Complete Guide | Fibrecross

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.

What is Optical Transceiver: A Beginner Guide (2024)

What is an Optical Transceiver? An optical transceiver, also known as a fiber optic transceiver or optical module, is a small packaged device that uses fiber optic technology to transmit

What is QSFP & QSFP+ Transceiver: An Ultimate

QSFP, Quad Small Form Factor Pluggable, typically 40G transceiver for data center and telecom applications. Check guide for everything about it.

HTF DWDM equipment,OTN Solution,QSFP28 OSFP

OCS Optical AI and Data Center Networking 200G QSFP-DD/QSFP56 400G QSFP-DD/OSFP/QSFP112 800G QSFP-DD/OSFP 1.6T OSFP-XD 100G/50G/40G

AOC, DAC, Fiber Optic Transceivers | One-Stop Shop for Datacenter

Online shopping. w/24h-delivery, 7Days & Refund Guarantee. CE, RoHS and ISO9001 Certified. SFP+ Cables, QSFP+ Cables, MiniSAS Cables, XFP Cables, CX4 Cables and Fiber Optic Transceivers.

Optical Transceiver Pricing: Cost Ranges by Speed and Type

See practical price ranges for 1G-100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

QSFP+ SR4 40GbE Universal Optical Transceiver

The 40G QSFP+ SR4 optical transceiver transmits data over multi mode fibre at a distance of up to 150m. The transceiver operates on 4 wavelengths and works in

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Sell Qatar Overseas Warehouse 1.6T Optical Module 2.5G in bulk to verified buyers and importers. Connect with businesses actively looking to buy wholesale Qatar Overseas Warehouse 1.6T Optical

QSFP Series 40G SR4 Multimode Optical Fiber Transceiver FTTH Module

QSFP Series 40G SR4 Multimode Optical Fiber Transceiver FTTH Module No reviews yet \$9 - 15 Minimum order quantity: 1 piece

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. Click to get

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 and AOC breakout series.

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

Syria Sff Optical Module Packaging Buyers & Importers ...

Sell Syria Sff Optical Module Packaging in bulk to verified buyers and importers. Connect with businesses actively looking to buy wholesale Syria Sff Optical Module Packaging at best prices.

SFP Optical Transceiver Modules for Long Distance: A Complete

Discover everything you need to know about SFP optical transceiver modules for long-distance fiber transmission. Compare LX, EX, ZX models and choose the right module for your

Contact Us

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