

Low-cost low-power optical module 40G



Overview

The 40G QSFP+ optical module is a high-performance, low-power optical fiber communication device that supports data transfer rates up to 40Gbps. 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+. 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. With four mutually independent channels for transmitting and receiving optical signals, 40G optical modules are able to provide high-density and low-power 40G Ethernet connectivity transmission applications for data centers, high-performance computing networks, enterprise core and distribution. GLSUN 40G QSFP+ transceiver modules satisfy the requirements for data center and 40G Ethernet applications. In this article 10Gtek will be introducing different network solutions of the most.



Article Content

Sep 07, 2025

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,

Sep 27, 2025

10G vs. 40G vs. 100G: Which Optical Module Fits Your

Choosing the right module isn't just about the fastest speed available; it's about matching the module to your fiber plant and switch capabilities. For

Feb 09, 2026

Optical Transceiver vs. Fiber Optic Module: What's the Difference ...

Introduction Engineers, purchasing managers and installers often see the terms **გარდამცემი**, optical module and fiber optic module used interchangeably — and that causes confusion. This article

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SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD,

The transceiver module is one of the most critical components in a high-performance network. Modern high-performance data network scenarios

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QSFP+ 40G LR4 Explained: Your Ultimate Guide to 40G

Why Choose a LINK-PP QSFP+ 40G LR4 Module? When your network's performance is on the line, opting for high-quality, compatible optics is

May 14, 2026

Dell networking transceivers and cables

Dell Technologies provides optical and cabling options for each Ethernet speed. Long- and short-range optical connectivity options are suited to a wide range of data center and campus applications. For

Oct 10, 2025

Optical Modules Market Research Report 2034

The optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034, growing at a CAGR of 11.5%.

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Compatibility Analysis of Optical Modules: Covering Global

In the field of optical communications, the compatibility of optical modules is one of the core considerations for users to choose third-party products. As a leading domestic optical module

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40G Transceivers Modules

40G transceiver modules at skywardtel satisfy the requirements for data center and 40G Ethernet applications. These 40G QSFP+ modules can guarantee high-density, cost-effective and low-power

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Arista Optics Modules and Cables

Overview Arista's Optical Modules and Cable portfolio offer a wide variety of high-density and low-power 800G (dual 400G), 400G, 200G, 100G, 50G, 40G, 25G, 10G, 1G, and 100M Ethernet connectivity

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40G QSFP+

The 40G QSFP+ optical module is a high-performance, low-power optical fiber communication device that supports data transfer rates up to 40Gbps.

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40G QSFP Optical Transceiver

The QSFP full-duplex optical module offers 4 independent transmit and receive channels, each capable of 10.3125Gbps operation for an aggregate data rate of

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Introduction to 40GBASE QSFP+ Optical Modules

40G QSFP+ ESR4 is the same operating principle as 40G QSFP+ SR4 but with a enriched distance of transmission up to 300m over OM4 optical

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SFP vs. QSFP: Differences, Use Cases, and How to Choose

SFP modules excel in short-reach, low-power, cost-sensitive deployments, such as server uplinks and industrial switches. QSFP modules dominate high-bandwidth aggregation, spine, and long-haul links,

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6 Common 40G QSFP+ Optical Module Models

With four mutually independent channels for transmitting and receiving optical signals, 40G optical modules are able to provide high-density and low-power 40G Ethernet connectivity

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AI Drives Doubling of 800G Optical Transceiver Shipments in 2025

Furthermore, driven by escalating demands from AI technology, shipments of 800G optical transceivers are projected to grow by 100% year-over-year in 2025. The market will also see the initial shipments

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QSFP Optical Module Report 2026: Growth Driven by Government

QSFP modules are integral to Ethernet switches, routers, and data center infrastructure, enabling high-speed data connectivity. The 100G QSFP optical module segment is anticipated to

Dec 29, 2025

AOC, DAC, ACC, AEC Modules: The most Complete

Understand AOC, DAC, ACC & AEC modules in one guide. Compare features, benefits & best use cases to choose the right cable for your data center.

Jun 21, 2026

Optical Module Package Market 2025

Modern AI clusters require low-latency, high-density optical connectivity, leading to rapid adoption of 400G and 800G modules. Major cloud service providers are expected to account for 65% of all high

Aug 27, 2025

Wholesale Optical Transceivers Module | 100G

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

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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.

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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.

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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.

Dec 08, 2025

Single Mode Optical Modules Market 2026

Telecommunication operators are extensively deploying Single Mode Optical Modules in fronthaul and backhaul applications to support 5G network rollouts. The modules enable high-speed, low-latency

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40G QSFP+ Fiber Optical Transceiver Modules LR4/SR4|GIsunMall

These 40G QSFP+ modules can guarantee high-density, cost-effective and low-power 40G data transmission.

Dec 05, 2025

800G LPO Module: Enabling Low-Cost, Low-Latency Connectivity

Low Power Consumption and Latency: Compared to traditional 800G DSP-based transceivers that consume up to 17W, the FS 800G OSFP finned-top LPO module dramatically

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Fiber Optic Patch Cables: The Complete 2026 Buyer's Guide

Confused by LC, SC, MPO, UPC, and APC? This complete fiber optic patch cable guide covers connector types, single-mode vs multimode, insertion loss specs, and how to choose the right

Jun 20, 2026

Short-Reach vs Long-Reach Optical Transceivers: How Far Can They

Short-Reach (SR) Optical Transceivers: where it belongs and how far it goes Short-reach modules are optimized for cost, low power and density. They almost always use 850 nm VCSEL lasers and

Sep 01, 2025

40G QSFP+ Optical Modules: A Complete Guide to

Learn key differences in cost, distance, power, and compatibility to choose the right solution for your data center upgrade. While 100G and 400G

Contact Us

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