

Fiber optic router 40km



Overview

The QSFP-40G-ER4 (Quad Small Form-factor Pluggable 40G Extended Reach) is a hot-swappable, optical fiber transceiver module. It's designed for long-haul communications, transmitting 40Gbps data rates over single-mode fiber (SMF) for distances up to 40 kilometers. The new DQ+BC0003-DS+ 3m QSFP56 break-out cable replaces XQ+BC0003-XS+ at the same price, adding support for 200G to 4x50G splitting while retaining compatibility. Our 40GBASE-ER4 QSFP+ transceiver enables ultra-long-reach connectivity for service provider networks. 40G QSFP ER4 optical transceiver module, support 40Gb/s and up to 40 km transmission on SM fiber, it works in high-speed IDC connection solutions, and so on. Features 4 CWDM lanes MUX/DEMUX design Up to 11. 2Gbps per channel bandwidth Aggregate bandwidth of > 40Gbps Duplex LC connector Compliant. The L-com FXC-SFP1G-31-40 is an SFP form-factor transceiver, supporting Gigabit Ethernet data rates. It uses fiber optical technology to send and receive data through completing the process of optical signal – electrical signal / electrical signal – optical signal conversion.



Article Content

Jun 13, 2026

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

Mar 26, 2026

10G SFP+ module SM 20KM 40KM 80KM TX/RX

Fiber Product Offering We provide a wide range of high-quality telecommunications products, including optical fibers, SFP modules, patch panels, and routers. Our

Feb 25, 2026

Fiber Optic Transceivers: A Practical Guide for Network

Fiber optic transceivers are electro-optical devices that convert electrical signals used by network equipment (switches, routers, servers) into

Dec 03, 2025

40G QSFP+ ER4 40Km CWDM Transceiver

Buy the QSFP-4040-ER4: a 40G QSFP+ ER4 transceiver with CWDMx4 wavelengths, 40Km single-mode reach, LC connectors, and DDM. Ideal for

Jun 09, 2026

9 Best Wi-Fi Routers For Fiber Optic Internet Reviews

Discover the best routers for high-speed fiber optic internet. Get blazing fast Wi-Fi performance for your home network.

Aug 13, 2025

Fiber Optic Transceiver SFP Gigabit Ethernet, 40 km

The L-com FXC-SFP1G-31-40 features a 1310 nm transmitter and supports 40 km

Aug 10, 2025

Complete Guide to Fiber Optic Home Networking

Build a home fiber network for 1-2 Gbps speeds with this complete guide to installation, troubleshooting, and performance.

Apr 12, 2026

SFP-10G-ER 1550nm 40km DDM Optical Transceiver

It uses fiber optical technology to send and receive data through completing the process of optical signal – electrical signal / electrical signal – optical signal

Apr 22, 2026

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

QSFP+ 40G ER4 is a 40G transceiver for long-distance, high-speed links up to 40km, ideal for data centers and enterprise networks using single

Mar 19, 2026

25G BiDi SFP28 80KM Optical Transceiver | FiberMania

Perfectly designed for 25g bidi sfp28 optical transceiver 1270/1330nm 80km single-mode fiber LC for switch, router, and server optical connections.

Jun 07, 2026

4K@60hz HDMI™ Extender (Over 1G IP, Loop, IR)

Ultra-Long Distance 4K HDMI Over Fiber Extender The UHD-FOM40-K is a professional HDMI extender engineered to transmit uncompressed 4K@60Hz

Jun 02, 2026

Optical Transceiver Market to Reach USD 25.74 Billion

Optical Transceiver Market Size & Trends | Mordor Intelligence Mordor Intelligence has published a new report on the Optical Transceiver Market,

Aug 29, 2025

Cisco 10GBASE SFP+ Modules Data Sheet

When shorter distances of single-mode fiber are used (<40km), an inline optical attenuator must be used to avoid overloading and damaging the

Feb 01, 2026

BO28L13640D BlueOptics QSFP28 Transceiver 100GBASE-ER4 40KM

With BO28L136 compatible 100GBASE-ER4 LC Duplex QSFP28 from BlueOptics you can increase your bandwidth and reduce latency with the highest availability without any loss.

Aug 19, 2025

Outdoor Wireless Bridges & CPE Archives

Original HG8546M Gpon Onu Router with PPPOE Bridge Mode HG8546M GPON ONT
HG8546M optical network terminal (ONT) is a indoor optical network terminal in FTTx solution. By using GPON

May 31, 2026

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

It works over single-mode fiber for up to 40km. This makes it good for long network connections. It uses a 1550nm wavelength and LC duplex

Jun 21, 2026

QSFP+ 40G Optical Transceivers,40G Fiber Optic Transceiver

FiberWDM provides a full range of 40G QSFP+ optical transceivers in the range of 100m to 40km.All QSFP+ transceivers have been fully tested.Quality assurance! buy with confidence!

Dec 21, 2025

40KM 1550nm Single Mode Duplex Gigabit Optical Module LC/SC

BTON Communication is a worldwide supplier and manufacturer of fiber optic connectivity products since 2009, special for sfp transceiver, media converter,video optical converter and poe switch. Our

Jul 01, 2025

The Ultimate Guide to SFP Modules (2026): Types,

What is an SFP? SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module used to connect network devices (switches, routers,

Dec 18, 2025

2Pair Gigabit Fiber SFP Module 1.25G Single Mode 40km LC

Easy to operate and suitable for many occasions, fiber optic switches, fiber optic routers, fiber optic transceivers, data center computer rooms, fiber optic network cards, fiber optic servers Distance:

May 20, 2026

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.

Oct 12, 2025

What Is a Single Fiber SFP? A Complete Guide for Beginners

Factors such as fiber quality, connector cleanliness, and optical power budget become more important—especially over longer distances like 40km or 80km. When correctly deployed, however,

May 02, 2026

Comprehensive Guide to SFP BiDi 10G 40km Modules: Selection ...

Discover Link-PP's reliable and compatible SFP BiDi 10G 40km modules for high-speed, cost-effective single-fiber 10G networks. Learn about selection tips, wavelength pairing, installation

Dec 22, 2025

MikroTik · SFP/QSFP

QSFP-DD optical module for reliable 400G fiber connections within ultra-fast setups, like the CRS812 and CRS804!

May 26, 2026

Settings for router to connect to Internet via fiber optic modem ...

Hi Team, I purchased a fiber optic modem (Glasfaser-Modem 2) from Telekom and would like to use it with my own router model Mi Router 4A Gigabit Edition. I have successfully registered the fiber optic

Dec 10, 2025

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables, as well as the various

Feb 13, 2026

Verified Supplier Fiber Optic Router Prices Multiple Ports & FTTH ...

Shop online for high-quality fiber optic routers from \$3 to \$35, with SC connectors and WiFi capabilities. Bulk purchase available from 1 unit, ideal for resale and compatible with FTTH and Epon networks.

Aug 06, 2025

Digital-Over-Fiber RF Router System Spans 40 km

The RF Router system has the greatest reach over a single fiber (40 km) of any commercially-available solution, smaller host and remote units, low-power consumption, fanless low

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://regen-power.co.za>

Email: info@regen-power.co.za

Phone: +49 176 845 2036

Address: Taunusanlage 15, 60325 Frankfurt am Main, Germany

This document is for informational purposes only. Specifications subject to change without notice.

