Enterprise-grade network optical module 40g



Overview

The 40GBASE-ER4 QSFP+ 1310nm Optical Transceiver Module is designed to transmit 40GBASE Ethernet throughput up to 40km over duplex LC connectors using single-mode fiber (SMF) at 1310nm wavelength. The transceiver is compliant with QSFP+ MSA, IEEE 802. 3bm 40GBASE-ER4, and OTU3. 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. In modern high-speed optical networks, 40GBASE-ER4 is a widely used QSFP+ optical transceiver standard designed for long-reach 40 Gigabit Ethernet transmission over single-mode fiber (SMF). It is primarily deployed in scenarios where network links must span up to approximately 40 km, making it a. 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. 3bm 40GBASE-ER4, and OTU3 standards.

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Article Content

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

40GBASE-ER4: Reach, Compatibility, and Deployment Guide

This guide helps network engineers, procurement teams, and IT architects quickly understand what 40GBASE-ER4 is, where it fits in the network stack, and how to choose the right

40G QSFP+ Transceiver Modules | Optical Transceivers

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40Gbps QSFP+ Optical Modules

40Gbps QSFP+ Optical Modules QSFP-40G-LR4 QSFP-40G-SDLC-PAM QSFP-40G-SR-BD (02311FPA) QSFP-40G-eSR4 QSFP-40G-iSR4 QSFP-40G-LX4 QSFP-40G-ER4 QSFP-40G-LR4

Cisco Compatible QSFP-40G-LR4: High-Performance 40G Optical

The high-demand deployment of a Cisco compatible QSFP-40G-LR4 optical transceiver module represents a critical milestone for enterprise networks upgrading from legacy 10G

Up to 40Gbps Data over 40km with 40GBASE-ER4 QSFP+ Module

The 40GBASE-ER4 QSFP+ 1310nm Optical Transceiver Module is designed to transmit 40GBASE Ethernet throughput up to 40km over duplex LC connectors using single-mode fiber (SMF) at

40G Optics | HPE Juniper Networking US

Juniper''s 40G and 4 x 10G optical transceivers are well suited for performance-critical deployments in cloud and enterprise networks.

40G QSFP+ Transceiver Modules | SR4, LR4, ER4 & Breakout Optics

Shop a wide range of 40G QSFP+ optical modules, including 40GBASE-SR4, LR4, and ER4. Our QSFP+ transceivers support 4x10G breakout mode for high-density 10G deployments. Ideal for data

40G QSFP+ Optical Transceiver | SR, LR, ER, ZR,

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Find high-density 40G QSFP+ optical transceivers compatible with Cisco, Huawei, Juniper, Arista, and more. Choose from SR, LR, ER, ZR for every network.

40GBASE ER4 QSFP+ Transceiver | 40G DWDM, 40km LC Optical

Discover 40GBASE ER4 QSFP+ transceivers, 40G DWDM, and LC transceivers. Ideal for high-performance networking with 40km reach and advanced 40G connectivity.

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4

Multimode fiber (MMF) continues to play a critical role in today''s high-bandwidth, short-range optical networks. While single-mode fiber (SMF)

Cisco C9300-48U-E 48-Port UPOE Switch | Catalyst 9300 Network ...

The Cisco C9300-48U-E Catalyst 9300 Series Switch is a next-generation enterprise-class access switch designed for high-density networking environments, advanced wireless deployments, and IoT

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LuLeey Optical Module Transceivers|High-Speed Fiber Connectivity

High-Speed Fiber Connectivity for Modern Networks From 1G enterprise networks to 800G AI data centers, optical transceivers are the core components that enable fast, stable, and long-distance fiber

SFP-10G-LR, Huawei SFP+ Optical Transceiver, 10G,

Huawei SFP-10G-LR 10G SFP+ 1310nm 10km single-mode LC module for enterprise and carrier networks. Check real-time Huawei 10G SFP module price

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

Optical Link Troubleshooting: Beyond the Module

□□ Optical Link Down? CRC Errors? Unstable Connections? The optical module may not actually be the real problem. In enterprise networks and data centers, many engineers immediately replace ...

Optical Transceiver Pricing: Cost Ranges by Speed and

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

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