

# 40km Optical Module Specifications



## 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. These modules typically operate at a 1550 nm wavelength, use LC duplex connectors, and support Digital Optical Monitoring (DOM/DDM) for. The ER4-Lite QSPF28 module provides a 100 Gb optical Ethernet connection over SMF (single-mode fiber), at distances up to 40 km. com Europe FS EuropeFREE SHIPPING on Orders Over EUR 79 VAT excl. Contact Us Germany / € EUR Sign in Sign up Search Recent Search Change FREE SHIPPING on Orders Over. EdgeOptic's 100G-4WDM-QSFP40KM compatible is an Extreme Networks-coded 100GBASE-4WDM-40 QSFP28 transceiver built to the 4WDM-40 MSA. It mirrors the Extreme part 100G-4WDM-QSFP40KM described in the Extreme Networks pluggable transceiver and cable manual as a 100G 4WDM QSFP28, LC, 40 km, single-mode. This product is a 400Gb/s Quad Small Form Factor Pluggable-double density (QSFP-DD) optical module designed for optical communication applications. 3bm 40GBASE-ER4, and OTU3 standards.

## Article Content

### 50G QSFP28 ER BiDi Single Fiber 40KM

TARLUZ 50G QSFP28 ER bi-directional transceiver is designed for use in 50 Gigabit Ethernet links up-to 40km on a single-core via single-mode fiber. This module

### 100 Gb ER4 Lite 40 km QSFP28 Module

To determine achievable distances, refer to the device's optical specifications and to the specific characteristics of your fiber installation. The following table lists specifications for the 100 Gb ER4

### Single Fiber 40 km SFP+ Optical Transceiver: Ciena...

Ciena XCVR-S40U27 is SFP+ Single Fiber Transceiver supporting 1.25-10.31 Gbps data rate in 40 km distance over Single-Mode Fiber (SMF).

### Accessories 2.5G-SFP-LX03-SM1310-BIDI-I 2.5G BiDi SFP 1310nm

The 2.5G-SFP-LX03-SM1310-BIDI-I is aligned to IEEE 2.5GBASE-LX optical specifications and supports a link length of up to 3 kilometers over a single mode fiber (SMF) with a BIDI LC connector. It adopts

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

In order to use different type of fiber, we also classify optical transceiver modules into single-mode optical modules and multi-mode optical modules. Single-mode

### Huawei SFP-GE-LH40-SM1310 Compatible 1000Base SFP Module

1000BASE-LX SFP 1310nm 40km DOM Optical Transceiver Module Compatible with Huawei SFP-GE-LH40-SM1310 Experience reliable long-haul connectivity with Rollball enterprise-grade Gigabit SFP

### Optical Module Chip Market 2025

The optical module chip market exhibits a fragmented yet competitive structure with global technology providers, semiconductor manufacturers, and specialized optical communication companies vying for

### 40GBASE-ER4 QSFP+ Guide: Specs, Wavelengths, 40km Optics

This guide provides a structured technical overview of 40GBASE-ER4, covering its architecture, key specifications, optical characteristics, interfaces, and deployment considerations to help engineers

### 400Gb/s QSFP-DD ER4 1310nm 40km Optical Transceiver

To minimize the optical dispersion in the long-haul system, single-mode fiber (SMF) has to be applied in this module. It can support up to 30km with 400G KP4 FEC and 40km with built-in PFEC.

## Arista Optics Modules and Cables

25 Gigabit Ethernet SFP25 Optical Specifications ... When connecting 25G-MR-XSR/LR optics to legacy fixed rate 10G optics, attenuation may be required to ensure the optical input power to the 10G

100G-4WDM-QSFP40KM Extreme | €508 | EDGE Optical Solutions

EdgeOptic's 100G-4WDM-QSFP40KM compatible is an Extreme Networks-coded 100GBASE-4WDM-40 QSFP28 transceiver built to the 4WDM-40 MSA.

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

100 Gb/s 40 km QSFP28 ER4 Transceiver

This product is designed with form factor, optical/electrical connections, and digital diagnostic interface according to the QSFP28 Multi-Source Agreement (MSA) and compliant to IEEE

QSFP+ 40G ZR4 Optical Transceiver Module 80km

Asterfusion 40G QSFP+ ZR4 optical transceiver modules support 40GBASE-ZR4 Ethernet. QSFP+ 40G 80km optical modules are designed for Ethernet,

Transceiver Optical Module Cisco 1.25G SFP 1490nm CWDM

Buy Transceiver Optical Module Cisco 1.25G SFP 1490nm CWDM with 40km transmission, 1490nm wavelength. tested module for networks. Same-day dispatch.

100GE QSFP28 4WDM-40 Optical Transceiver

The product is designed with form factor, optical/electrical connection and digital diagnostic interface according to the QSFP+ Multi-Source Agreement (MSA). It has been designed to meet the harshest

SFP+ 40km (10GBASE-ER): Extended-Reach Optical Module Guide

Understand SFP+ 40km (10GBASE-ER) modules, including specs, SMF compatibility, and how to choose the right extended-reach optical transceiver for your network.

100G QSFP28 ER4 Transceiver: 40km Reach Optical

100GE ER4 QSFP28 40km Optical Transceiver Description Innoptical's IN-QSFP28-ER4 module is designed for 40km optical communication applications. This

QSFP-40G-ER4 40Gbps QSFP+ Transceiver, SM,

The QSFP+ ER4 transceivers are high performance, cost effective modules supporting data rate of 40Gbps and 40km transmission distance with SMF.

LPO MSA Announces Release of Specification for Linear Pluggable Optical ...

The specification defines the necessary optical and electrical requirements for a robust ecosystem of LPO-compatible switch, NIC and module products.

1u-1x8-rack-optical-switch-data-sheet-580101.pdf

1U-1x8#580101 Guilin GLsun Science and Tech Group Co., LTD. Tel: +86-773-3116006 info@glsun Web: - 2 - Rack 1x8 Optical Switch

10G DWDM SFP+ Transceivers 40KM 16dB EML C-Band 50GHz

Product Description 10G DWDM SFP+ 40KM 16dB EML C-Band 50GHz 100GHz 200GHz ITU grid Description Gezhi Photonics SFP+ER DWDM Transceiver is designed for 10GBASE-ER/EW, and

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

LINK-PP 's optical modules, including their QSFP-40G-ER4 transceiver, are rigorously tested to ensure 100% compatibility with major OEM

1000BASE-EX SFP 1310nm 40km Transceiver Datasheet | FS

Description The SFP1G-LH-31 series single-mode transceivers are small form factor pluggable module for bi-directional serial optical data communications such as Gigabit Ethernet 1000BASE-LX and

LR ER CWDW 100G QSFP28 Transceiver 1310nm 10km 20km 40km Optical ...

LR ER CWDW SFP Module Optical Transceiver 100G QSFP28 1310nm 10km 20km 40km Overview The GZ-QSFP28-ER4 is a transceiver module designed for 40km with FEC (30km without FEC) optical

Transceiver Optical Module Cisco 1.25G SFP 1270nm CWDM

Optimize your setup with Transceiver Optical Module Cisco 1.25G SFP 1270nm CWDM. superior component ensures stable connections. Request quote.

1.25G 1310nm 40Km CWDM SFP Optical Transceiver Module Single

1.25G 1310nm 40Km CWDM SFP Optical Transceiver 1.25G Single Mode Product Description GEZHI compatible 1.25Gpbs CWDM SFP transceiver supports up to 40km, 80km, 120km or 160km link

Customized 100GBASE-4WDM-40 QSFP28 4 x 25G NRZ 1310nm

The 100GBASE-4WDM-40 QSFP28 transceiver supports up to 40km link lengths over LC duplex SMF fibre. This transceiver is compliant with SFF-8661, SFF-8636 and IEEE 802.3-2018 standards. Digital

100Gb/s QSFP28 40KM Optical Transceiver Module

III. General Description This product is a 100Gb/s transceiver module designed for optical communication applications compliant to Ethernet 100GBASE-ER4 standard. The module converts 4

## Contact Us

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