

40km Optical Module Technical Specifications



Article Overview

40km optical modules are designed for long-distance transmission over single-mode fiber, typically operating at 1550 nm for 10G and 1310-1550 nm for 40G/100G, with LC duplex or QSFP interfaces and optical link budgets around 15 dB for 10G and higher for 100G.

10GBASE-ER SFP+ Modules

Key Specifications:

- Data Rate: 10 Gbps (supports multi-rate 1.25-11.32 Gbps for Ethernet, Fibre Channel, and SONET/SDH)
- Wavelength: 1550 nm DFB laser
- Maximum Reach: 40 km over single-mode fiber (G.652/OS2)
- Connector Type: Duplex LC/UPC
- Optical Link Budget: ~15 dB, supporting long-haul metro and enterprise links
- Monitoring: Digital Optical Monitoring (DOM/DDM) for real-time transmit/receive power, temperature, voltage, and laser bias current
- Form Factor: Hot-pluggable SFP+ (SFF-8431 compliant)
- Power Supply: +3.3 V single supply

Article Content

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

SFP+ 10G 1310nm 40Km LC Transceiver

SFP+ 10G 1310nm 40Km LC Transceiver is a hot-pluggable SFP+ package/dual LC interface, with DDM digital diagnosis function,

100Gb/s QSFP28 40KM Optical Transceiver Module

Low Power Mode (LPMode) pin is used to set the maximum power consumption for the product in order to protect hosts that are not

40GBASE-ER4 QSFP+ Transceiver | 40km SMF

EDGEOPTIC 40GBASE-ER4 QSFP+ transceiver: 40km single-mode fiber, CWDM 1271-1331nm, 19dB link

10X10 MSA releases 10-km, 40-km specs for 100-Gbps optical

The 10X10 MSA has added to its potential portfolio of 100-Gbps optical modules with the announcement of specifications for 10-km

Product Specification XFP 10G ER 40km LC Optical Transceiver

XFP 10G ER 40km LC Optical Transceiver Features Supports 10GBE Application at the Data-Rate of 9.953Gbps to 10.3125Gbps

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

Technical guide to 40GBASE-ER4 QSFP+ optics covering CWDM wavelengths, optical specs, power, interfaces, and 40km

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

SFP-S1213L-40 1.25Gbps SFP Transceiver,SM,40KM-AOA Tech

SFP-S1213L-40 1.25G SFP Module 40KM Optical SFP Module 1.25Gbps SFP Transceiver SM 1310nm 40km LC Datasheet PDF

What are the detailed parameters of the optical module

Optical modules generally have the following specifications: multi-mode 550m, single-mode 15km, 40km, 80km and

40Gbps QSFP+ Optical Modules

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

100G-4WDM-QSFP40KM Extreme | €508.62 | EDGE Optical Solutions

Extreme Networks-coded 100G-4WDM-QSFP40KM compatible. 100GBASE-4WDM-40 QSFP28, 40km SMF over LAN-WDM, DOM.

40GBASE-ER4 QSFP+ 1310nm 40km | Carritech Optics

Each one has been matched to this Carritech Optics product using the relevant optical specifications and compatibility requirements.

10G XFP ER 1550nm 40km Optical Transceiver

Diagnostic Performance Monitoring of module temperature, Supply Voltages, laser bias current, transmit optical power, and receive

100 Gb/s 40 km QSFP28 ER4 Transceiver

This product is designed with form factor, optical/electrical connections, and digital diagnostic interface according to

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

40G Optical Transceivers and Cables Portfolio | FS

1. 40GBASE Transceiver Module Series 40G QSFP+ Transceiver Module Series include SR4, BIDI, CSR4, PIR4, LX4, IR4,

100G QSFP ER4L 40km

100G QSFP ER4L 40km • Support line rates from 103.125 Gbps to 111.81Gbps • Compliant with QSFP28 Standard: SFF-8665

10GBASE-ER SFP+ 40km 1550nm | EDGE Optical

The 10G-SFP-40 is a 10GBASE-ER SFP+ module that extends 10 Gigabit Ethernet up to 40 km over

Fiber Optic Transceiver, XFP, 1550nm, ER SMF 40km, 10G/OC-192

Fiber Optic Transceiver, XFP, 1550nm, ER SMF 40km, 10G/OC-192 DDM, Adtran from L-com has same day shipment for domestic

40km dcf-based passive dispersion compensation module

Description DCM (Dispersion Compensation Modules) provides fixed chromatic dispersion compensation for high-speed metro core,

40km Fiber Optic Sfp: Structure, Specifications, and Common Industry ...

Types of 40 km Fiber Optic SFPs A 40 km fiber optic SFP (Small Form-factor Pluggable) is a compact, hot-pluggable transceiver

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

The QSFP+ ER4 transceivers are high performance, cost effective modules supporting data rate of

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

40GBASE-ER4 QSFP+ 1310nm 40km Transceiver Datasheet | FS

QSFP+ transceiver modules are designed for use in 40 Gigabit Ethernet links and 4x10G OTN client interfaces over single mode

An Introduction to Three Specifications of 100G

For above-mentioned three specifications, Gigalight currently has these two: 100G QSFP

100G QSFP ER4L 40km

- 40km (with host FEC), 30km (without host FEC) • QSFP28 MSA package with duplex LC connector. • Two Wire Serial Interface with

F418M174xxx-D-10G-DWDM-SFP+40Km-VERR1A

The high speed 10 Gbps electrical interface is fully compliant with SFI specification. The high performance DWDM EML transmitter

Contact Us

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

Website: <https://e-motional.eu>

Email: info@e-motional.eu

Phone: +49-30-657-8924

Address: Friedrichstraße 101, 10117 Berlin, Germany

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