

40km line optical module



Overview

SFP+ 40km is a type of 10 Gigabit optical transceiver designed for long-distance data transmission up to 40 kilometers over single-mode fiber (SMF). In most cases, this term specifically refers to the 10GBASE-ER (Extended-Reach) standard defined by the IEEE for 10G Ethernet networks. In modern optical transport networks, 100G optical modules with a transmission distance of 40km have emerged as a core technology to meet the needs of carriers' backbone networks, large enterprises, and cloud service providers. These modules typically operate at a 1550 nm wavelength, use LC duplex connectors, and support Digital Optical Monitoring (DOM/DDM) for. An Optical transceiver module is the core part of optical communication devices. It uses fiber optical technology to send and receive data through completing the process of optical signal – electrical signal / electrical signal – optical signal conversion. The transceiver operates on 1 wavelength and works in point-to-point scenario.

Article Content

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.

1G 1310nm 40km SFP EX Transceiver Module

Generic SFP-1G-EX Compatible 1000BASE-EX SFP 1310nm 40km Transceiver supports 1G gigabit Ethernet and telecom connectivity over singlemode fiber

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

Features SFP-10G-ER 1550nm 40km DDM Optical Transceiver
What Is An (Fiber) Optical Transceiver?
How to Classify Optical Transceivers?
How to Choose The Right Optical Module?
Modules Compatibility
Select The Original One Or Compatible One According to The Budget Situation
In order to meet a variety of needs of transmission, the manufacturers launched a variety of categories of optical modules. Below are some common methods to classify them.
See more on me
fiber optic 5/5(1) Module Tek

100G QSFP ER4L 40km - Module Tek

100G QSFP ER4L 40km • Support line rates from 103.125 Gbps to 111.81Gbps • Compliant with QSFP28 Standard: SFF-8665 Revision 1.9, SFF-8636 Revision 2.6

SFP-10G-ER40 10GBASE-ER SFP+ Transceiver

Cisco SFP-10G-ER40 Compatible 10GBASE-ER SFP+ 1310nm 40km DOM Duplex LC SMF Optical Transceiver Module A high-performance, fully compatible

100G QSFP28 ER4 Transceiver: 40km Reach Optical

Innoptical's IN-QSFP28-ER4 module is designed for 40km optical communication applications. This module contains 4-lane optical transmitter, 4-lane optical

100G QSFP ER4L 40km

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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 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,

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

10G SFP+ module SM 20KM 40KM 80KM TX/RX 1270/1330nm, single fiber Bidi, LC port DDM SFP transceiver The SFP transceivers are high performance, cost

StarTech SFP-10G-ER-ST Cisco SFP-10G-ER

The SFP-10G-ER-ST is a Cisco SFP-10G-ER compatible fiber transceiver module that has been designed, programmed and tested to work with Cisco brand

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

SFP+ 40km (10GBASE-ER) modules are designed for scenarios where reliable 10G connectivity must extend far beyond typical data center distances. Their ability to transmit over up to

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.

Singlemode 40 km Fiber Optic Transmitters, Receivers, Transceivers

Singlemode 40 km Fiber Optic Transmitters, Receivers, Transceivers are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Singlemode 40 km Fiber Optic

100G QSFP28 ER4 40km Optical Module

HTFuture's 100G QSFP28 ER4 Optical Module supports 40km SMF transmission at 100Gbps, ideal for high-speed data centers and telecom applications.

Extend Your 100G Reach to 40km Transmission with FS Optics

FS offers a wide range of 100G optical modules supporting transmission distances up to 40km. Purpose-built for DCI, metropolitan area networks, and telecom backbone networks, these

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

SFP+ BiDi WDM 10GbE Ethernet Line 40km Universal Optical

The 10G SFP+ BiDi WDM Ethernet Line optical transceiver transmits data over single mode fibre at a distance of up to 40km. The transceiver operates on 1 wavelength and works in point-to-point scenario.

Custom 40G QSFP+ ER4 Module | 40km APD Receiver

Achieve 40km unamplified spans. Equipped with cooled EML lasers and highly sensitive APD receivers, the 40G QSFP+ ER4 Module secures your long-haul telecom links.

QSFP28 100G ER4 Optical Module: Technologies and Applications for

The QSFP28 100G ER4 optical module, with its compact design and robust 40km transmission capability, has emerged as a core component enabling high-performance network expansion.

QSFP-40G-LR4: QSFP+ 40G LR4 Optical Module

Explore the QSFP-40G-LR4 a 40G LR4 single-mode module with CWDM for 10Km extension. Cisco compatible - buy now for high-bandwidth networks!

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

SFP-10G-ER is a 10G SFP+ transceiver for up to 40km over single-mode fiber, featuring 1550nm wavelength, LC connector, and real-time monitoring.

What Are The 10 GBIT/s SFP+ Optical Modules With A

2. 10G SFP+ 40KM optical module □1550nm□ 10G SFP+ 40KM optical module, also known as 10G ER in the industry, is equipped with

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.

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

SFP-10G-ER 1550nm 40km DDM Optical Transceiver Module CISCO, HUAWEI, H3C, Juniper, D-link, HP, IBM, dell, Mikrotik, Aruba, Quidway Compatible This

StarTech GLCEXSMDST Cisco GLC-EX-SMD Compatible SFP Module ...

The GLCEXSMDST is a Cisco GLC-EX-SMD compatible fiber transceiver module that has been designed, programmed and tested to work with Cisco® brand switches and routers. It delivers

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!

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

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.

Contact Us

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