100g single-mode optical module 40km range



Overview

The Hilink 100GE 4WDM-40 40km QSFP28 optical transceiver (HL-QSFP28-4ER4C) is designed for use in 100-Gigabit Ethernet links up to 40km on Single Mode Fiber (SMF). 100G 40km QSFP28 ER4 is capable of transmitting data up to 40km distances, making it ideal for long-range data center. 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. The module converts 4 input channels of 25Gb/s electrical data to 4 channels of LAN WDM optical signals and then multiplexes them into a single channel for. The 100G QSFP28 ER4 optical transceiver transmits data over single mode fibre at a distance of up to 40km. The transceiver operates on 4 wavelengths and works in point-to-point scenario. They are compliant. The Cisco 100GBASE Quad Small Form-Factor Pluggable (QSFP) portfolio offers customers a wide variety of high-density and low-power 100 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider. GIGALIGHT 100G QSFP28 ER1 optical transceiver module is used for long-distance transmission in the datacom or telecom sector and is compliant with the 100G Lambda MSA 100G-ER1-40 specification. It uses a pair of single-mode fibers for transmission with a central wavelength of 1310nm and a distance. Our 100G-ER1 Single Lambda QSFP28 40km transceiver delivers ultra-extended reach using advanced PAM4 modulation. Supporting 40km over single-mode fiber with FEC at 1304.

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Article Content

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

In this article, we will provide a detailed overview of these different types of 40km 100G modules, analyzing their unique features and application scenarios to help you choose the most

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.

100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP-100G-CWDM4-S Module supports link lengths of up to 2 km over a standard pair of G.652 Single-Mode Fiber (SMF) with duplex

100G QSFP28 ER1 EML 1310nm 40km Optical Transceiver

GIGALIGHT 100G QSFP28 ER1 optical transceiver module is used for long-distance transmission in the datacom or telecom sector and is compliant with the 100G Lambda MSA 100G-ER1-40 specification.

400G, 800G, and Terabit Pluggable Optics:

Full range of 400G / 800G pluggable modules Copper cables Multimode Fiber – 100m Single Mode Fiber inside DC – 500m & 2km Single Mode Fiber Campus – 10 km Outside plant, DCI – 100 km →

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2315200 HW SFP-GE-LX-SM1310 Enterprise Optical Transceiver SFPGE Single-mode Module (1310nm 10km LC) CloudEngine S16700 Switch

100GBASE QSFP-100G Modules Data Sheet

QSFP-100G Optical modules Features and benefits of Cisco QSFP modules Hot-swappable input/output device that plugs into a 100G Gigabit

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

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the

Cisco 40GBASE QSFP Modules Data Sheet

The Cisco 40GBASE-ER4 QSFP Module supports link lengths up to 40km over G.652 single-mode fiber with duplex LC connectors. The 40GE or OTU3 signal is carried over four

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Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot

25G SFP28 Transceiver FP Module Suppliers,manufacturers

Find 25G SFP28 Transceiver FP Module at ETU-Link,we are committed to provide professional technical 25G SFP28 Transceiver FP Module. Competitive price!

Arista 100G Transceivers and Cables: Q&A

Arista supports a full range of 100G copper cables and optical transceivers compliant to IEEE standards and industry MSAs. Arista''s 100G connectivity solutions include copper cables and Active Optical

Fiber Optic Products & Accessories

UnitekFiber is a professional manufacturer of fiber Indoor/outdoor cables, MPO/MTP fiber patch cords,fiber optic patch panel. SFP optical transceiver, fiber optical

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

JIAXUN JQ-SM31100-ER1C 100GBASE-ER QSFP28 Single Lambda

The JIAXUN JQ-SM31100-ER1C 100GBASE-ER Single Lambda QSFP28 Optical Transceiver Module is designed for use in 100GBASE Ethernet throughput up to 40km over single mode fiber (SMF) using

Arista Optics Modules and Cables

100G QSFP pluggable transceivers and cables for high density 100G deployments. Optical interoperability with 100GbE CFP, CFP2 and CPAK Parallel QSFP transceivers for both multi-mode

What Makes the 100G QSFP28 ER4 Transceiver So Special?

When people compare 100G optical modules, the names can start to blur together. SR4, LR4, ER4, CWDM4—on paper, they look similar, but each one is built for a different kind of link. The

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

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Website: https://aboutkitchens.biz
Technical inquiry: https://aboutkitchens.biz/project-desk.html
North American project location: Research Triangle Park, North Carolina, United States

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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