

QSFP28 optical module low temperature and RoHS resistant



AI Overview

QSFP28 optical modules can operate in extended temperature ranges and many are RoHS-compliant, making them suitable for industrial and environmentally demanding applications. Low-Temperature Operation QSFP28 transceivers are available in commercial (0°C to 70°C), industrial (-40°C to 85°C), and extended temperature ranges depending on the manufacturer and module type. Industrial-grade QSFP28 modules are specifically designed to maintain reliable performance in harsh environments, including outdoor data centers, telecom infrastructure, and high-performance computing networks. When selecting a module for low-temperature operation, check the datasheet for the operating temperature range and ensure it matches your deployment conditions. RoHS Compliance Most modern QSFP28 modules are RoHS-compliant, meaning they are free from hazardous substances such as lead, mercury, cadmium, and certain flame retardants. RoHS compliance ensures that the modules meet environmental and regulatory standards, which is particularly important for large-scale deployments and regions with strict electronic waste regulations. Module Types and Connectivity QSFP28 modules support a variety of optical standards and connector types, including: SR4 (Short Range): Multimode fiber, MTP/MPO connectors, up to 100m on OM4 fiber. LR4 (Long Range): Single-mode fiber, LC connectors, up to 10 km. ER4/ER4 Lite: Extended reach, single-mode fiber, LC connectors, up to 40 km. ZR4: Ultra-long reach, single-mode fiber, LC connectors, up to 80 km. PSM4/DR: Parallel single-mode fiber, MTP/MPO or duplex LC connectors, up to 500 m. These modules are compatible with IEEE 802.3bm standards and support high-density 100G Ethernet deployments. The choice of module depends on the required link distance, fiber type, and environmental conditions. Vendor Options Sev...

Article Content

100G QSFP28 Active Optical Cable Datasheet | FS

The product is designed with form factor, optical/electrical connection according to the QSFP Multi-Source Agreement (MSA). It has been designed to meet the harshest external operating conditions

Spec Sheet

These 100G QSFP28 assemblies are capable of transmitting data up to 100Gb/s, offering an easy installation with a flexible, multimode fiber cable.

100Gb/s QSFP28 Transceivers | Optical Interconnect | Amphenol

Amphenol's 100G QSFP28 optical modules include SR4, AOC, AOC break out, CWDM4, LR4, ER4 Lite, ER4 and ZR4 series, which adopt LC or MPO optical ports

100G QSFP28 SR4 100m Transceiver

The optical transceiver is designed with form factor, optical/electrical connection and digital diagnostic interface according to the QSFP28 Multi-Source Agreement (MSA) and it is

100 Gb/s QSFP28 ZR4 80 km Transceiver

8 MSA form factor RFC2544 compliant Ascent's QSFP28-100G-LP80 is designed for 80. m optical communication applications. This module contains 4-lane optical transmitter, 4-lane optical

100Gb/s QSFP28 Transceivers

Amphenol's 100G QSFP28 optical modules include SR4, AOC, AOC break out, CWDM4, LR4, ER4 Lite, ER4 and ZR4 series, which adopt LC or MPO optical ports and are compatible with IEEE802.3bm,

Cisco Compatible Optical Modules Catalog

Cisco Compatible Optical Modules Catalog - Official Technical Overview & Hardware Datasheet EXECUTIVE SUMMARY This document serves as the definitive technical reference for the Cisco

Active Optical Cable QSFP28 100Gbps, 7m, Arista® Compatible

The AOCQP28100-007-AR is an active optical cable designed for use in 100Gigabit Ethernet links. They are electrically compliant and mechanically compliant with the QSFP28 MSA.

QSFP28 SR4 Optical Transceiver Module Overview

Explore FS QSFP28 SR4 optical transceiver with low power consumption, perfect compatibility, and reliable performance for efficient data

QSFP, QSFP+, and QSFP28: What You Need to Know

- 100m transmission via OM4 (70m@OM3) - Compatible with a variety of different devices - Optical output power: up to 2.4 dBm - Low power consumption: 1.8 W

QSFP28 100G Direct Attach Copper Cables

Regional Availability - Global Siemon QSFP28 100G passive Direct Attach Copper Cable assemblies are designed to exceed industry standard performance offering a cost-effective, low latency, low

2022-069-Packet-Optical EDFA DS R02 20221121

The modules are designed for packet-optical, low-cost, reduced space, and reduced power Data Center Interconnect (DCI) single-channel and DWDM applications. The modules plug into L2/3 switch

100GBASE QSFP-100G Modules Data Sheet

The Cisco QSA Module converts a QSFP28 port to an SFP28, SFP+ or SFP port. This flexibility allows customers a cost-effective transition to high

QSFP28 Active Optical Cable Assemblies

COST EFFICIENT, HIGH PERFORMANCE, PLUG AND PLAY INTERCONNECT SOLUTIONS
Amphenol ICC's 100G QSFP28 to QSFP28 Active Optical

Cisco QSFP28 100G ZR Digital Coherent Optics Module Data Sheet

This DCO module is tunable across C-band. The module is compatible with widely deployed ports of QSFP28 100G and 100GBASE ER CAUI-4 client interfaces. Its maximum

Intel® Ethernet QSFP28 Optic

Overview Intel® Ethernet QSFP28 Optic is an excellent choice for up to 100 meter reach in multimode fiber systems for high-speed communications equipment. Ideal for short-range multi-lane data

Intel® Ethernet QSFP28 Optic

Overview Intel® Ethernet QSFP28 Optics are an excellent choice for fiber systems in high-speed communications equipment. Both short range and long-range transceiver modules are available for

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

The QSFP28-100G-ZR4-S Module is designed for use in 100GBASE Ethernet throughput up to 80km over single mode fiber (SMF) using a wavelength of 1310nm via duplex LC connectors. Taking

Overview of QSFP28 LR4 Optical Transceiver

Discover FS's QSFP28 100G LR4 optical transceiver, offering low power consumption, perfect compatibility, and reliable long-distance

Mellanox QSFP28 to SFP28 Adapter

The QSA28 interoperates with all major optical modules and direct attached copper cable vendors. Its design assures minimum loss on the conversion path between the QSFP28 cage and the SFP28

QSFP28 Optical Transceiver 100 Gigabit Ethernet for up to 10 km Reach

The Lumentum 100G QSFP28 Optical Transceiver is RoHS 6/6 compliant and complies with international electromagnetic compatibility (EMC) and product safety requirements and standards.

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

Product overview The FS® 100GBASE Quad Small Form-Factor Pluggable (QSFP28) portfolio offers customers a wide variety of high-density and low-power 100 Gigabit Ethernet connectivity options for

Finisar FTLF8519P3BNL Compatible LINK-PP LS-MM851G-S5C

Finisar FTLF8519P3BNL Compatible & MSA Compliant This 100GBASE-SX SFP is engineered as a 100% compatible, plug-and-play alternative to the highly ubiquitous Finisar FTLF8519P3BNL optical

Spec Sheet

Active Optical Cables QSFP28 100G Breakout Siemon 100G QSFP28 to 4x SFP28 Breakout Active Optical Cable (AOC) assemblies offer a highly reliable and cost-effective alternative to transceiver

100G QSFP28 SR4

The optical interface uses a 12-fiber MTP/MPO connector. This module incorporates Gigalight proven circuit and VCSEL technology to provide reliable long life, high performance, and consistent service.

Contact Us

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