QSFP28 optical module high temperature resistant FOB price

Overview

The price of a QSFP28 module depends on the module type, reach, coding, temperature grade, warranty, order quantity, and supplier. Compatible QSFP28 SR4 modules can start around $35.

Key Takeaways

High-temperature QSFP28 modules typically support -40°C to 85°C operation, with costs ranging from $400 to $1,200 per module depending on type, distance, and vendor.

High-

Temperature QSFP28 ModulesIndustrial-grade QSFP28 optical transceivers are designed for harsh environments, including outdoor edge computing, telecom, and industrial applications. These modules can operate reliably in temperatures from -40°C to 85°C, compared to standard commercial modules rated for 0°C to 70°C. They often feature enhanced thermal management, robust packaging, and stress-tested components to maintain performance under extreme heat or cold.

Cost Factors

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The price of high-temperature QSFP28 modules depends on several factors: Engineering and Testing: Modules undergo Design Verification Tests (DVT) and Qualification Tests, including temperature cycling, moisture resistance, and shock tests, which increase development costs. Bill of Materials (BOM): High-quality chipsets, optical components, and mechanical cases suitable for extreme temperatures add to the cost. Production and Yield: Labor, equipment, and testing for industrial-grade modules are more intensive, affecting unit cost.

Module Type and Reach: SR4, LR4, CWDM4, ZR4, and ESR4 modules vary in optical reach and complexity. Longer-reach or single-mode modules generally cost more. Vendor and Volume: OEM customization, coding, and support services can influence pricing.

Bulk purchases may reduce per-unit cost. Typical Price RangeShort-reach multimode (SR4) modules: $400–$600 per moduleLong-reach single-mode (LR4, CWDM4) modules: $700–$1,200 per moduleSpecialized industrial or ESR4 modules: Can exceed $1,200 depending on distance, thermal tolerance, and vendor customization SummaryFor high-temperature applications, industrial-grade QSFP28 modules are recommended, offering -40°C to 85°C operation. Costs are higher than standard commercial modules due to enhanced engineering, materials, and testing requirements, with prices typically ranging from $400 to $1,200 per module depending on type, reach, and vendor.

When selecting modules, consider thermal tolerance, optical reach, and vendor support to ensure reliable performance in extreme environments.

Article Content

QSFP28 Price Guide 2026: 100G Transceiver Costs & TCO

The price of a QSFP28 module depends on the module type, reach, coding, temperature grade, warranty, order quantity, and supplier. Compatible QSFP28 SR4 modules can start around $35.

Armored Fiber Optic Cables

Get diverse armored fiber patch cables for stronger protection of the optical fibers and stable transmission to support fiber optic cabling in harsh environments.

100G QSFP28 Optical Transceivers | Transceiver Modules

Buy online compatible 100G QSFP28 transceivers at QSFPTEK for high-performance 100GbE connectivity. QT QSFP28 includes 100GBASE-SR4/LR4/ER4/ZR4, from 100m to 80km.

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Buy 100G QSFP28 Optical Transceiver Modules by Amphenol XGIGA Factory-Direct at Cables on Demand in 100GBASE-SR4 (Short-Range Multimode) and 100GBASE-LR1 (Long-Range Single

100G QSFP28 Optical Transceivers

Modules are available for Ethernet (103.125 Gbps) and Optical Channel Transport Unit (OTU4) (112Gbps) applications with a wavelength of Tx/Rx 850nm. The ethernet module also is available as

100G QSFP28 Module Cost: Pricing Guide & Factors | Vitex

Discover 100G QSFP28 module pricing. Learn key cost factors, considerations, and real examples to make informed purchasing decisions for your network.

100G QSFP28 Transceivers with 100% In-house Tested for Compatibility

100G SR4 optical module, the first choice for multi-mode short distance transmission, can provide 100m transmission distance on OM4 fibre, with the advantages of low cost, stable transmission and low

100G QSFP28 Transceiver

Cisco QSFP-100G-LR4-I Compatible 100GBASE-LR4 QSFP28 1310nm 10km LC Duplex SMF DDM Optical Transceiver Module (Industrial Temp.) Have any questions? Talk with us directly using

QSFP28-100G-LR4-C ATGBICS | Fiber Optic Transceiver Modules

QSFP28-100G-LR4-C - Transceiver Module Networking, General Purpose 100Gbps 1310nm 3.3V LC Duplex Pluggable, QSFP28 from ATGBICS. View datasheets, pricing and availability from DigiKey now!

100G QSFP28 Optical Transceiver Modules | FiberMall

The 100G QSFP28 optical module is suitable for 100G Ethernet, EDR Infiniband and 32G fibre channel. Generally, its size and panel density are the same as 40G QSFP+.

FS QSFP28 Optical Modules Solution

QSFP28 (Quad Small Form-factor Pluggable 28) is a compact, hot-pluggable transceiver used for data communication applications. It allows data rate of 4x28 Gbit/s used for 100 Gbit/s links,

QSFP28 Transceiver: The Ultimate 100G Optical Module Guide

The QSFP28 (Quad Small Form-factor Pluggable 28) transceiver is a compact module that can be hot-swapped and is designed to support high-speed data transfer in today''s network.

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100G QSFP28

The transmission rate of the 100G QSFP28 optical module is 100G, while the optical module is transmitted using a four-channel fiber, so the transmission data rate

QSFP28 Transceiver: Complete 100G Connectivity

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot

Understanding QSFP28 Optical Modules: A Comprehensive Guide

The 100GBASE-ER4 QSFP28 optical module uses advanced modulation technology to achieve high-speed data transmission over single-mode optical fiber. In addition, the optical module also supports

QSFP28 100G SR4 Transceiver – High-Performance Optical

Explore the QSFP28 100G SR4 transceiver by LINK-PP. High-performance, cost-effective optical module for data centers, supporting 100G multimode fiber and broad vendor

100G QSFP28 LR4

This high-performance 100G QSFP28 LR4 transceiver offers a 10km reach, multi-protocol support, and industrial temperature range.

100G QSFP28 Optical Transceiver Modules | FiberMall

FiberMall offers 100G QSFP28 Optical Transceiver Modules provides 100 Gigabit Ethernet connectivity for up to 100km transmission with the MPO/LC connector.

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