

Selection Guide for Mining Grade Single-Fiber Bidirectional QSFP28



Overview

This guide provides a systematic selection process to help you choose the right QSFP28 module every time. You will learn how to verify form factor compatibility, match fiber and distance requirements, validate switch compatibility, consider thermal constraints, and avoid. This guide provides the definitive roadmap for selecting, deploying, and troubleshooting QSFP28 transceivers while bypassing the painful trial-and-error phase. The modules arrived on time, passed visual inspection, and seated perfectly in the switch ports. It was only then that they discovered the cabling contractor had installed OS2 single-mode fiber. 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 data center, high-performance computing networks, enterprise core and distribution layers, and service provider. Single fiber QSFP28 modules (commonly called BiDi transceivers) enable full-duplex 100G communication over a single optical strand. Tx wavelength — one. The QSFP-100G-SR4-S module supports 100GBASE-SR4 Ethernet over link lengths of up to 100m over parallel multimode fiber. 1 Gbps, with each lane operating at 25.



Article Content

Hot

100G BiDi QSFP28 80km Side A | €1,802 | EDGE

100G BiDi QSFP28 80km, Side A: O-Band Tx 1273-1286 nm, LAN WDM Rx, 30 dB budget, host RS-FEC. Pair with Side B. €1,801.80. EU stock + lifetime warranty.

Nov 30, 2025 Hot

100G Optical Module Selection Guide: Advantages and Types of

Explore the QSFP28 100G optical module, a vital component for high-speed network connections. Discover its unique features, advantages, and various types to meet diverse

Jun 17, 2026 Hot

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

The QSFP28-100G-BX20 Module supports link lengths of up to 20km over a standard G.652 single-mode fibers with simplex LC connectors. Full 20km reach requires the use of FEC on the host platform.

Aug 29, 2025 Hot

Fiberworks Data Sheet

The QSFP28 BiDi transceivers are 100 Gbit/s pluggable modules for data communications such as 100GBASE Ethernet on one single mode fiber. The transceivers operates with one PAM4 data

Sep 20, 2025 Hot

100G QSFP28 Single Fiber (BiDi) Modules: Technology, Benefits ...

Understand 100G QSFP28 single fiber (BiDi) modules—how they work, benefits vs. duplex 100G, deployment considerations, and recommended LINK-PP solutions. Practical guide for

Apr 08, 2026 Hot

QSFP28 Transceiver: Complete 100G Connectivity Guide (2026)

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot 100G QSFP28 optics.

Apr 18, 2026 Hot

QSFP28 Module Types: Selection Guide for 100G Networks

Selecting the right QSFP28 module types comes down to three variables: distance, fiber infrastructure, and switch compatibility. Get any of these wrong, and you face costly returns,

Jan 21, 2026 Hot

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

It uses single-fibre bi-directional technology to transmit different wavelengths over a single fiber. Multiplexing and demultiplexing of the eight wavelengths are managed within the device.

Apr 24, 2026 Hot

100G Over Single Fiber, Simplified

Introducing the QSFP28 100G Bidi Product Family Last Updated: April 11, 2025
Upgrading from 10G to 100G no longer requires complex fiber builds.

Oct 08, 2025 Hot

100GBASE-SR4 and 100GBASE-BiDi SR

The 100G QSFP28 BiDi SR1.2 is a Quad Small Form-factor Pluggable (QSFP28) BiDi optical module, supporting 100Gbps and conforming to

Jun 03, 2026 Hot

How to Choose QSFP28: Complete 100G Selection Guide

This guide provides a systematic selection process to help you choose the right QSFP28 module every time. You will learn how to verify form factor compatibility, match fiber and distance

May 29, 2026 Hot

Introduction to 100G QSFP28 Bidirectional Transceivers

TARLUZ 100G QSFP28 Bidirectional transceivers are a cost saving solution for building a network or upgrading an existing network, the transceivers provide

Jun 24, 2026 Hot

Pluggable Transceivers Installation Guide

The information in this guide about hardware platform support for QSFP28 modules is current as of the date this guide was published. Support for QSFP28 modules might have been added to other

Jul 24, 2025 Hot

Ultimate Guide to Selecting 100G QSFP28 Optical Modules

The core advantage of the single-fiber solution lies in its efficient use of optical fiber resources. In some scenarios where space is limited, optical fiber laying is difficult, or optical fiber

Jun 01, 2026 Hot

Arista 100G Transceivers and Cables: Q& A

Enabling FEC with QSFP-100G-LR4 optics on Arista switches can allow for links beyond 10km with single mode fiber. However, as this is not fully characterized, customers are advised to measure the

Aug 28, 2025 Hot

QSFP-40G-SR-BD (Single-Fiber-Bidirectional Module)

This document provides an overall description of the CE5800& 6800& 7800& 8800 series switches hardware that versions earlier than V200R020C00, helping you obtain detailed information about

Dec 27, 2025 Hot

Understanding 100G Single Fiber QSFP28 Module for

100G single fiber QSFP28 modules enable fast, cost-effective network upgrades using one fiber strand, ideal for scalable modern data centers.

Jan 22, 2026 Hot

QSFP-100G-SR1.2 QSFP28 100GBASE-SR BiDi 850nm

QSFP-100G-SR1.2 BiDi is a parallel Quad Small Form-factor Pluggable (QSFP28) Bi-Direction optical module that supports 100 Gbps bit rates. The module

Jun 19, 2026 Hot

QSFP-100G-SR1.2 vs. QSFP28-BIDI-100G: Choosing the Right 100G

Explore the key differences between the QSFP-100G-SR1.2 and QSFP28-BIDI-100G. Learn how to select the best module based on fiber resources, distance, cost, and scalability for your

Jun 15, 2026 Hot

Single-Mode Fiber Cable Guide: Types, Specs & Selection

This comprehensive guide explores Single-Mode Fiber Optic Cable, covering technical specifications, deployment scenarios, and best practices to help you optimize your fiber infrastructure

Dec 27, 2025 Hot

Our wide range of bidirectional QSFP28 100G

Our range of bidirectional QSFP28 100G transceivers Until recently, drop-in upgrades from 10G to 100G were primarily possible in traditional duplex

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100G QSFP28 BiDi Optical Module: Features, Benefits, and Use Cases

Learn how 100G QSFP28 BiDi optical modules enable single-fiber bidirectional transmission to reduce fiber usage and deployment costs.

Aug 02, 2025 Hot

100G QSFP28 Transceiver Selection Tutorial For Beginner's

CWDM Single Lambda QSFP28 transceiver module is designed for use in 100Gbps Ethernet links over 10km single mode fiber, incorporating one channel optical signal, on either 1270,

Sep 02, 2025 Hot

100G QSFP28 Transceivers Guide: SR4, SWDM4, PSM4, CWDM4

Complete guide to 100G QSFP28 transceiver types, specifications, and applications. Compare SR4, SWDM4, PSM4, CWDM4, LAN WDM for your network needs.

May 06, 2026 Hot

100G QSFP28 Distance Guide: MMF & SMF Range Comparison

Complete guide to 100G QSFP28 transceiver distances. Compare multimode (70m-500m) vs single-mode (2km-100km) options for network planning.

Oct 02, 2025 Hot

100G Single-Fiber Optical Transceiver: The New Choice for High ...

With the increasing demand for network bandwidth in scenarios like 5G base station deployment, data center interconnects (DCI), and high-definition video transmission, 100G optical transceivers have

Apr 07, 2026 Hot

Panduit Cable Ordering Guide For Cisco 100G Optics

The QSFP-100G-PSM4-S module supports 100G link lengths of up to 500m over parallel G.652 SMF (Single-Mode Fiber). It accepts angle-polished MPO12 connectors and can interoperate with 4

Sep 04, 2025 Hot

A Closer Look at 100G QSFP28 Single Lambda

100G QSFP28 Single Lambda optical module uses single-wavelength PAM4 technology for data center interconnects. Discover its benefits, standards,

Jul 15, 2025 Hot

100G QSFP28 Single Fiber (BiDi) Modules: Technology, Benefits ...

100G QSFP28 single fiber (BiDi) modules are a practical, proven method to increase the effective capacity of existing fiber plants, reduce cabling complexity, and optimize total cost of

Jan 24, 2026

Contact Us

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