

100GSR4 Optical Module with Ultra-Low Power Consumption



Overview

The low-power QSFP28 100G SR4 optical module features a 4-channel full-duplex transceiver module, with low power consumption $<2.5\text{W}$, QSFP hot-pluggable packaging, a maximum transmission distance of 70m for OM3 multimode fiber (MMF), and 100m for OM4 MMF. The fiber interface can. Traditional 10G/40G networks are no longer sufficient to support the demands for high concurrency and high throughput, making upgrades to 100G and beyond a prevailing trend. It uses four channels, each transmitting 25Gbps, totaling a maximum throughput of 100Gbps. Check important things like compatibility, how far data must travel, fiber type, connector type, where you will use it, and if it will work in the future. Choosing QSFP28 optical transceivers that fit your system helps. The 100g SR4 Optical Transceiver Module is a high-speed, short-reach optical module that operates on a wavelength of 850nm. Connect these directly to the es and shall be applied concurrently. Recommended host board power supply filtering is s own in Recommended. is designed for use in 100-Gigabit Ethernet links up to 100m over Multi-Mode Fiber (MMF). It is compliant with the QSFP28 MSA and IEEE 802. Digital diagnostics functions are available via the I2C interface, as specified by the QSFP28 MSA.



Article Content

Hot

A Complete Guide to Selecting 100G QSFP28 Optical

Choose the best 100g qsfp28 optical transceiver for your network by comparing compatibility, distance, fiber type, and future-proofing options.

Oct 17, 2025 Hot

100G QSFP28 Transceivers: Types, Specs and How to Choose

A complete guide to 100G QSFP28 transceivers covering types, specs, reach, compatibility, and how to choose the right module for data center and telecom networks.

Sep 09, 2025 Hot

Unlocking the Power of 100G SR4 Modules for Data Center Efficiency

Power Consumption: The 100G SR4 module is designed for low power consumption, making it an environmentally-friendly choice for high-performance networks. This can lead to energy

Nov 30, 2025 Hot

Cisco 100GBASE QSFP-100G Modules Data Sheet

Cisco QSFP-100G-SR4-S The Cisco 100GBASE-SR4-S QSFP Module supports link lengths of up to 70m over OM3 and 100m over OM4 Multimode Fiber with MPO connectors. It primarily enables high

Jan 15, 2026 Hot

The Knowledge 100G Optical Transceivers You Should

How should the correct 100G optical transceiver module be selected? This blog will introduce 100G optical transceiver related knowledge, hope to help

Dec 29, 2025 Hot

A Comprehensive Guide to 100G Optical Transceiver

From legacy CFP modules to cutting-edge QSFP28 solutions, the evolution of 100G optical transceiver form factors reflects the industry's drive

Nov 19, 2025 Hot

Overview of 100G SR4 Optical Modules

The 100G SR4 optical module is a robust solution for short-range, high-speed networking needs. Its ability to deliver 100 Gbps over short distances, low power consumption, and affordability

Dec 14, 2025 Hot

FS 100G SR4 Module Applications in Data Center

Among these, 100G SR4 optical modules have emerged as a key component for short-reach high-speed interconnects due to their low cost, low

Dec 14, 2025 Hot

100G Optical Module: How to Choose Between SR4,

Continuing our discussion on 100G optical modules, let's explore the essential 100G transmission standards—SR4, DR1, DR4, BiDi SR, LR4,

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Overview of 100G Optical Modules and Modulation

With the rapid development of cloud computing, 5G, and AI applications, the demand for high-speed and energy-efficient optical transceivers

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100GBase SR4 Spec Sheet

The module operates by a single +3.3V power supply. The product is designed with form factor, optical/electrical connection and digital diagnostic interface according to the QSFP28 Multi-Source

Dec 04, 2025 Hot

BSD-QSFP-100G-SR4

Recommended host board power supply filtering is shown in Figures 3 and 4. Vcc Rx Vcc1 and Vcc Tx may be internally connected within the QSFP28 Module in any combination.

Aug 14, 2025 Hot

100G QSFP28 SR4

Gigalight QSFP28 modules operate in the low power mode (less than 1.5 W power consumption). This pin active high will decrease power consumption to less than 1W.

Mar 25, 2026 Hot

Explore FS 100G QSFP28 Module Family to Build Efficient Network

FS 100G QSFP28 modules are available in a wide variety, utilising low-power chips to reduce energy consumption, such as Broadcom, Marvell, and Semtech (learn more). All products have passed

Aug 22, 2025 Hot

Everything You Should Know About 100G SR4

This design enables the 100G SR4 module to provide high-bandwidth data transmission while maintaining low power consumption and latency. The

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100G QSFP28 Optical Module Selection Guide: Medium to Long

If you need to go farther, such as supporting transmission within 100M, then 100G SR4 is a good choice. It uses multimode optical fiber for transmission, supports simultaneous transmission

Nov 10, 2025 Hot

100G SR4 Optical Module vs 40G SR4 Optical Module

The low-power QSFP28 100G SR4 optical module features a 4-channel full-duplex transceiver module, with low power consumption <2.5W, QSFP hot-pluggable packaging, a maximum transmission

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100G QSFP SR4 100m

- Built-in digital diagnostic functions
- Up to 70 m on OM3 multimode fiber
- Up to 100 m on OM4 multimode fiber
- Low power consumption (Operating power ≤ 2.0 W)
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Jan 20, 2026 Hot

100G SR4 Optical Module Application Overview | ETU-LINK

Taking the 100G QSFP28 SR4 optical module as an example, analyze its characteristics, working principle, and application. The 100G QSFP28 SR4 has a 4-channel full duplex transceiver module,

Aug 12, 2025 Hot

Everything You Need to Know About 100G SR4

The 100g SR4 Optical Transceiver Module has a low power consumption of less than 3.5 watts, making it an energy-efficient solution for data

Aug 24, 2025 Hot

100G SR4 Optical Module: A Complete Guide to Introduction ...

100G QSFP28 SR4 Optical Module: Features, Working Principle & Applications Taking the 100G QSFP28 SR4 as an example, let's examine its key characteristics, operation, and use cases.

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How Does the 100G SR4 Module Enhance Network Performance?

The 100G SR4 optical module, with its high-speed parallel transmission, low power consumption, and strong compatibility, significantly enhances data center network throughput and

Jan 05, 2026 Hot

Introduction And Application Of 100G SR4 Optical

Taking the 100G QSFP28 SR4 optical module as an example, analyze its characteristics, working principle, and application. The 100G QSFP28 SR4 has a

Mar 30, 2026 Hot

QSFP28 100G SR4 MMF 850nm Transceiver

Features 850nm VCSEL laser 100Gb/s aggregated bidirectional data throughput
Contain clock and data recovery (CDR) Supports 100 Gbps data rate links of up to 70m via OM3 MMF and 100m via OM4

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FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Mar 22, 2026 Hot

100G QSFP28 SR4 100m Optical Transceiver (Low Power Version)

Description The Gigalight GQS-MPO101-SR4CL is a four-channel, pluggable, parallel, fiber-optic QSFP28 SR4 for 100- or 40-Gigabit Ethernet, InfiniBand FDR/EDR applications. This transceiver is a

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