

# Jamaica Silicon Photonics Technology

## QSFP28



### Overview

100 Gb/s DR1 QSFP28 Optical Transceiver is a small form-factor, high speed, and low-power consumption product targeted use in optical interconnects for data communications applications. The high-bandwidth QSFP28 module supports 500 m links over single-mode fiber via LC connector. Meanwhile, silicon photonics technology — a disruptive innovation — has steadily gained traction through years of R&D. For 100G QSFP28 transceivers, silicon photonics offers several key benefits:

**Higher Integration:** By combining multiple optical functions on a single chip, silicon photonics reduces the size and complexity of transceivers. Stresses beyond. e most characteristic parameters. Please refer to the respective datasheet min Tx power and Rx sensitivity. Dispersion/path penalties not taken into account. FEC: If FEC is required in host equipment for performance @ 1 GHz grid and with integrated FEC. It is compliant with the QSFP28 MSA,802. 3cu 100GBASE FR1 and CAUI-4(no FEC)1. It integrates 4 data lanes in each direction with.

## Article Content

Mar 05, 2026

Luxtera offers PSM4 QSFP28 optical module, silicon photonics chipset

After a fairly quiet period, silicon photonics pioneer Luxtera has announced a pair of new products. They include the LUX42604 QSFP28 optical module based on the PSM4 MSA, as ...

Sep 19, 2025

FIBERSTAMP WINS TWO LIGHTWAVE INNOVATION

The 100G QSFP28 DWDM1 O-BAND Silicon Photonics received a high score of 4.5/5, highlighting its originality, innovation, and customer impact. Meanwhile, the

Sep 01, 2025

GIGALIGHT100G-FR1QSFP28OpticalTransceiver P/N:GQS-SI101FR1C

abit Ethernet links up to 2km over Single-Mode Fiber (SMF). It is compliant with the QSFP28 MSA, 802.3cu 100GBASE FR1 and CAUI-4(no FEC)1. Digital diagnostics functions are available via the

Feb 23, 2026

Juniper Networks lays out silicon photonics based pluggable optical ...

While optical transceivers based on silicon photonics are plentiful, Juniper Networks believes its approach provides significant differentiation.

Dec 18, 2025

Intel® Silicon Photonics 100G PSM4 Brief

Description The Intel® Silicon Photonics 100G PSM4 (Parallel Single Mode fiber 4-lane) QSFP28 Optical Transceiver is a small form-factor, high speed, and low power consumption product, targeted

Feb 14, 2026

Intel® 100G SR4 QSFP28 Optical Transceiver

Intel® 100G SR4 QSFP28 Optical Transceiver quick reference with specifications, features, and technologies.

Aug 25, 2025

Intel® Silicon Photonics 100G PSM4 QSFP28 optischer Transceiver

Intel® Silicon Photonics 100G PSM4 QSFP28 optischer Transceiver Kurzübersicht über Spezifikationen, Funktionen und Technik.

May 06, 2026

Intel® Silicon Photonics 100G PSM4 QSFP28 Optical Transceiver

Intel® Silicon Photonics 100G PSM4 QSFP28 Optical Transceiver - Support product information, featured content and more.

Oct 08, 2025

Integrated Silicon Photonics Transceiver Module for

The architecture, packaging, and performance of a Silicon Photonics single transceiver chip PAM4 optical QSFP28 transceiver module for 100 Gigabit

Sep 07, 2025

Silicon Photonics vs. Laser Technologies: Optimizing 100G QSFP28 ...

Explore the differences between silicon photonics and traditional laser technologies in 100G QSFP28 transceivers. Compare performance, cost, and scalability to optimize high-density

Nov 19, 2025

QSFP28 » Acacia

The QSFP28 100ZR module's streamlined design provides high-volume manufacturing capabilities while maintaining high performance and quality.

Dec 20, 2025

A New Generation of 100G Pluggable Optics Starts With

Through silicon photonics and signal processing technology, Cisco has taken the first step toward that vision: single - lambda 100G optics. When

Aug 13, 2025

QSFP+/28/56 AND SFP28/56 OVERVIEW

QSFP28 BiDi TRANSCEIVERS ... 1) This transceiver has inbuilt FEC so host system shall not activate FEC.

May 27, 2026

Integrated Silicon Photonics Transceiver Module for 100Gbit/s 20km ...

The architecture, packaging, and performance of a Silicon Photonics single transceiver chip PAM4 optical QSFP28 transceiver module for 100 Gigabit Ethernet compliant to 100GBASE-LR1 for 10km

Feb 20, 2026

100GBASE-PSM4 QSFP28 1310nm 2km Transceiver

1. 100G QSFP28 transceiver module is individually tested on corresponding equipment such as Cisco, Arista, Juniper, Dell, Brocade and other brands, and passes the monitoring of FS intelligent

Feb 26, 2026

SiPh 100G QSFP28 FR1 1310nm 2km Optical Transceiver

GIGALIGHT 100G QSFP28 FR1 optical transceiver module adopts single-wavelength 100G PAM4 and silicon photonics integration technology, which is widely used in 100GBASE-FR1 Ethernet links, and

Apr 14, 2026

Innovations in Silicon Photonics and Laser Technologies for 100G

The integration of silicon photonics and advanced laser technologies is driving the evolution of 100G QSFP28 transceivers. These innovations not only improve current performance

Jun 07, 2026

Inphi Corporation Develops Highly Integrated Silicon Photonics ...

Inphi Corporation announced that it has successfully developed a highly integrated Silicon Photonics (SiPho) technology platform for 100Gbit/s data center applications. The single-chip

Nov 18, 2025

Optical Modules Market Research Report 2034

Silicon Photonics Adoption and Cost Reduction Dynamics Silicon photonics technology is fundamentally reshaping the cost and integration landscape of

Jun 11, 2026

100G QSFP28 DR1 Optical Transceiver

100 Gb/s DR1 QSFP28 Optical Transceiver is a small form-factor, high speed, and low-power consumption product targeted use in optical interconnects for data communications applications. The

Jun 21, 2026

Inphi qualified TowerJazz for production of advanced silicon photonics ...

Inphi's innovative Silicon Photonics PAM4 technology is the industry's first low power, cost effective 100G DWDM platform solution in QSFP28 form factor for between data center interconnects. Inphi

Aug 25, 2025

Intel Silicon Photonics QSFP28 Module

Silicon Photonics is a combination of two of the most important inventions of the 20th century the silicon-integrated circuit and the semiconductor laser. With this

Mar 09, 2026

Inphi Sells Over 100,000 Units of COLORZ 100G Silicon

Inphi Corporation, a leader in high-speed data movement interconnects, has shipped more than 100,000 COLORZ units, the industry's first

Feb 01, 2026

Intel® Silicon Photonics 100G DR/FR/LR QSFP28 Optical Transceiver

Intel® Silicon Photonics 100G DR/FR/LR QSFP28 Optical Transceiver quick reference with specifications, features, and technologies.

## Contact Us

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