

Single-mode fiber optic transceiver 100g



Overview

The QSFP-10010-LR1 is a 100G QSFP28 LR1 transceiver with single lambda 1310nm, 10Km reach on SMF, LC connector, DDM for long-reach data center applications. The Cisco 100GBASE Quad Small Form-Factor Pluggable (QSFP) 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. FS offers a growing portfolio of 100G QSFP28 modules. Click to get your 100GBE transceiver modules from nearby. NVIDIA® MMS1V70-CM transceiver is a single mode 1-lane (DR1), QSFP28 optical transceiver, designed for use in 100 Gigabit Ethernet (GbE) links on up to 500m of single mode fiber. The transceiver converts 4 input channels of 25Gb/s NRZ electrical data to a single optical channel of 100Gb/s PAM4. Designed for long-reach 100G links on 1310nm single-mode fiber (SMF), QSFP 100G LR4 has become a go-to choice for connecting switches, routers, and interconnect systems across buildings, campuses, and metro-edge facilities — while still keeping the deployment simple and standardized. MPO-12. This guide provides the definitive roadmap for selecting, deploying, and troubleshooting QSFP28 transceivers while bypassing the painful trial-and-error phase.



Article Content

Feb 23, 2026

OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber

Compare OM1, OM2, OM3, OM4, and OM5 multimode fiber specs, distances, bandwidth, and applications. Essential guide for data center fiber

Jul 26, 2025

Arista QSFP-100G-LR4-Arista | 100G QSFP28 Transceiver, Single-Mode ...

The Arista QSFP-100G-LR4 is a 100GBASE-LR4 QSFP28 optical transceiver designed for high-performance 100 Gigabit Ethernet applications. It supports link distances up to 10km over duplex

Apr 03, 2026

Arista Optics Modules and Cables

All interface speeds, from 1G to 400GE have connectivity options that include Direct Attach copper Cables (DACs), Active Optical Cables (AOCs), multi-mode fiber and single-mode fiber transceivers.

May 24, 2026

Single Mode vs Multimode Fiber, What is The

Learn the key differences between single mode vs multimode fiber cables and choose the right one for your fiber optic system.

Nov 09, 2025

Offizieller BlueOptics SFP Hersteller

Kaufen Sie BlueOptics SFP, SFP+, QSFP und QSFP28 Transceiver, DAC und AOC Kabel direkt ab Lager. Versand heute.

Nov 09, 2025

100G QSFP28 Transceiver Modules | Optical Transceivers

The 100G QSFP28 module solution provides high-performance 100GbE connectivity for data centres, enterprise core & distribution layers, computing networks and service provider applications.

Jun 27, 2025

LonRise Launches High-Performance OSFP-800G-DR8 Transceiver

The technical parameters of the OSFP-800G-DR8 are finely tuned for high-density deployment. It operates with a transmitter optical power range typically between -2.9 dBm and +4.0

Jun 12, 2026

Optical Transceivers / SFP Modules – High-Performance Compatible Fiber ...

Comprehensive Optical Transceivers & SFP Module for High-Speed Networks LINK-PP offers a full range of optical transceivers and SFP module for modern data centers, telecom networks, and

May 19, 2026

Fiber Optic Transceivers: A Practical Guide for Network

Wavelengths: Different wavelengths are used for optical transmission. Common wavelengths include 850nm (multimode), 1310nm and 1550nm (single

Aug 20, 2025

40mW 1310nm 100G CWDM4 Fiber Optic Transceiver QSFP28

Key attributes Type Fiber Optic Transceivers Connector Type LC Duplex Connector Power Source 3.3V Use Data Center High Speed Optical Interconnect Networ Network 100G Ethernet, Data Center

Jul 30, 2025

Optical Transceiver Market Size, Share, and Trends Analysis 2032

Global Optical Transceiver Market Segmentation, By Form Factor (SFF and SFP, SFP+ and SFP28, QSFP, QSFP+, QSFP-DD, QSFP28, and QSFP56, CFP, CFP2, CFP4, and CFP8, XFP, and CXP),

Jan 21, 2026

Amazon : Fiber To Ethernet Converter

A Pair of 1.25G/s Bidi Gigabit Multi-Mode Fiber Ethernet Media Converter with 2PCS Bidi SFP LC Dual Transceiver Module Included, 10/100/1000Base-Tx to 1000Base-SX SMF RJ45 to SFP Slot up to

Jul 18, 2025

Single Mode Optical Transceiver Market 2026

Single Mode Optical Transceiver Market is experiencing significant growth driven by expanding 5G deployments and fiber optic network upgrades. Telecommunication operators are prioritizing high

Feb 03, 2026

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

The 100GBASE-PLR4 optical transceiver module supports link lengths of up to 10km over single-mode fiber (SMF) with MTP/MPO-12 connector. This transceiver is compliant with SFF-8636 and QSFP28

Nov 26, 2025

QSFP 100G LR4: 1310nm Single Mode Fiber Module Explained

Understand QSFP 100G LR4 optical transceiver for high-speed 100G network, long-reach single-mode fiber links, and efficient data center or campus deployment.

Apr 29, 2026

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.

Nov 20, 2025

SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver

What Is SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver Module? SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver Module CISCO, HUAWEI,

Nov 06, 2025

Set Up a Fiber-Optic Network in Your Home or Office

A single-mode SFP is a small form-factor pluggable (SFP) optical transceiver for single-mode fiber (SMF), which converts electrical signals into

Oct 19, 2025

Arista QSFP-100G-PSM4-Arista | 100G QSFP28 Transceiver, Single-Mode ...

The Arista QSFP-100G-PSM4 is a 100GBASE-PSM4 QSFP28 optical transceiver designed for high-speed data center and enterprise connectivity. It delivers 100Gbps throughput over single-mode fiber

Feb 18, 2026

Sfp Module Single Mode Multimode Fiber Optic Transceiver Lc

Warranty Time 3 Years Product name SFP Module Type Fiber Optic Transceivers Connector Type LC / SC / MPO Max Data Rate 155M 1.25G 10G 25G 40G 100G 400G Single package size 10X5X2 cm

Jan 19, 2026

SFP Optical Transceivers: How Pluggable Optics Are Reshaping

2. What Is an SFP Optical Transceiver? An SFP transceiver is a compact, hot-swappable interface module designed to convert electrical signals from a network switch or router into optical

Oct 29, 2025

QSFP28-100G-LR1 100G Single Lambda Transceiver 10Km

The QSFP-10010-LR1 is a single lambda long reach single-mode 100G QSFP28 optical module transceiver compatible with the 100GBase-LR1 specifications. It uses a single 1310nm EML laser at

Sep 03, 2025

Arista OSFP-400G-XDR4-Arista | 400G OSFP Transceiver, Single-Mode

The Arista OSFP-400G-XDR4 is a 400GBase-XDR4 OSFP optical transceiver designed for high-bandwidth data center and enterprise networking applications. It delivers 400 Gbps throughput over

Apr 28, 2026

Fiber Optic Wiki

Share information about fiber optic industry Introduction 100G Single Lambda transceivers were defined by 100G Lambda MSA (100G Lambda Multi

May 15, 2026

Arista QSFP-100G-LRL4-Arista | 100G QSFP28 Transceiver, Single-Mode ...

Description The Arista QSFP-100G-LRL4 is a 100GBASE-LRL4 QSFP28 optical transceiver delivering 100 Gigabit Ethernet connectivity over distances up to 2km using duplex single-mode fiber.

Feb 07, 2026

Arista QSFP-100G-PLRL4-Arista | 100G QSFP28 Transceiver, Single-Mode ...

Description The Arista QSFP-100G-PLRL4 is a 100GBASE-PLR4L QSFP28 optical transceiver designed for 100 Gigabit Ethernet deployments over single-mode fiber up to 2km. Operating at 1310nm

Jan 15, 2026

QSFP28 FR1 100GbE Universal Optical Transceiver

The 100G QSFP28 FR1 optical transceiver transmits data over single mode fibre at a distance of up to 2km. The transceiver operates on 1 wavelength and works in

Jun 25, 2026

MMS1V70-CM 100GbE QSFP28 DR1 Transceiver

NVIDIA® MMS1V70-CM transceiver is a single mode 1-lane (DR1), QSFP28 optical transceiver, designed for use in 100 Gigabit Ethernet (GbE) links on up to 500m

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.elagage-lorrain.fr>

Email: sales@elagage-lorrain.fr

Phone: +33 6 47 82 19 35

Address: 15 Rue de la République, 69002 Lyon, France

This document is for informational purposes only. Specifications subject to change without notice.

