

The switch supports 1000g single-mode optical modules



Article Overview

Yes, the switch can support 1000BASE-LX/LH SFP modules for single-mode fiber, provided the modules are certified for the switch.

Single-Mode Optical Module Compatibility

1000BASE-LX and 1000BASE-LH SFP modules are Gigabit Ethernet optical transceivers designed for long-distance transmission over single-mode fiber (SMF), typically supporting distances up to 10 km for LX and up to 40 km for LH, depending on fiber quality and link conditions . These modules operate at a 1310 nm wavelength, converting electrical signals from the switch into optical signals for fiber transmission and back at the receiving end .

Key Considerations

- **Certification:** Switches often require that optical modules be vendor-certified to ensure reliable operation. For example, Huawei switches only guarantee proper functionality with certified modules, and using non-certified modules may cause service instability or hardware issues . Certification can usually be verified via module labeling or switch commands.
- **Distance and Fiber Type:** While single-mode fiber allows long-distance links, multimode fiber may require mode-conditioning patch cables for distances beyond 300-550 meters .
- **Module Standards:** LX/LH modules comply with IEEE 802.3z standards, ensuring in...

Article Content

Jun 24, 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

Nov 24, 2025

SFP Types Explained: 1G Modules, Distances & Selection

See 1G SFP types—SX/LX/EX/ZX, BiDi, CWDM/DWDM, and 1000BASE-T—with distances, wavelength pairs, temp grades, and

Oct 22, 2025

1G SFP Transceivers | Mini-GBIC SFP Modules

FS gigabit ethernet transceiver solutions provide fibre or copper options including 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-T

Jul 09, 2026

View the Optical Module Status on a Switch

The following GE SFP (1000 Mbps) transceivers are supported: MGBBX1: 1000BASE-BX-20U SFP transceiver, for

Nov 18, 2025

Cisco SFP Modules for Gigabit Ethernet Applications

The 1000BASE-ZX SFP operates on standard single-mode fiber-optic link spans of up to approximately 70 km in length. The SFP

May 18, 2026

The Ultimate Guide to SFP Modules (2026): Types, Speeds

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM

Mar 13, 2026

Cisco SFP and SFP+ Transceiver Module Installation Notes

Use only Cisco SFP transceiver modules on your Cisco device. Each SFP transceiver module supports the Cisco

Feb 10, 2026

Gigabit Ethernet connectivity over single-mode fiber,

This Cisco-compatible GLC-LH-SMD transceiver module allows you to connect a singlemode 1000Base

Sep 17, 2025

SFP-1G-SX vs SFP-1G-LX Multimode or Single-mode for Your Network

SFP-1G-SX vs SFP-1G-LX: Compare multimode and single-mode SFPs to choose the right module for your network's

Aug 31, 2025

SFP Transceiver Single-Mode Gigabit Mini-GBIC Module 1000BASE

About this item Compatible for Cisco GLC-LH-SMD/ GLC-LH-SM/ SFP-GE-L (Coding as GLC-LH-SMD), 2-Pack 1000Base-LX/LH

Feb 04, 2026

1000Base-LX SFP Module

100% MSA UNCODED SFP TRANSCEIVER: Designed, programmed and tested to work with compatible MSA Compliant switches

Dec 15, 2025

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit

Oct 15, 2025

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Dec 20, 2025

Types of Optical Modules

Single-mode fibers support a wide band and large transmission capacity, and are used for long-distance transmission. Multimode

Feb 15, 2026

1000Base-BX WDM Bi-Directional SFP Module

TP-LINK's TL-SM321B-2 and TL-SM321A-2 is designed to work in a pair to create an on-site gigabit fiber communication up to 2km

Dec 26, 2025

The Power of 1G Optical Modules: How They Enhance Your Network ...

Elevate your network's performance with 1G optical modules. Learn how these modules work and the advantages of

Aug 06, 2025

Single-mode vs Multimode SFP 2026: Fiber Types and distances

A guide to single-mode vs multimode SFP modules. Covers fiber types, wavelengths, distances, BiDi, CWDM/DWDM, SMF vs MMF

Sep 06, 2025

Accessories MINI-GBIC-LX-SM1310 1000BASE-SX SFP 1310-nm 10

The MINI-GBIC-LX-SM1310 is aligned to IEEE 1000BASE-LX optical specifications and supports a link length of up to 10 kilometers

Feb 02, 2026

Catalyst 6500 Series 10

Through the support of modular SFPs optics, the 48-port 100BASE-X module offers flexibility by allowing mix and

Apr 12, 2026

Understanding 1000BASE-LX SFP for Modern Networks

1000BASE-LX SFP enables reliable 1 Gbps fiber connections up to 10 km, supporting both single-mode and

May 12, 2026

Cisco 1000BASE-LX/LH SFP

Explore the Cisco 1000BASE-LX/LH SFP module, designed for reliable and high-performance Gigabit Ethernet connectivity.

Feb 27, 2026

1000BASE-LX SFP: A Complete Guide for Gigabit Fiber Networks

A 1000BASE-LX SFP is a Gigabit Ethernet optical module designed to transmit data at 1Gbps over long-distance fiber links, typically

Oct 04, 2025

1000BASE-LX vs 1000BASE-SX SFP Transceivers Key Differences

1000BASE-LX SFP supports up to 10km over single-mode fiber, while 1000BASE-SX is ideal for short-range links.

Jul 30, 2025

1000BASESX SFP: How to Select the Right Optical Module

At its core, 1000BASESX SFP refers to a Gigabit Ethernet optical transceiver designed for short-range transmission over multimode

Oct 11, 2025

Optic Modules Datasheet

These platforms support multiple interface types and technologies such as Ethernet, ATM, and SONET. Depending on the

Apr 24, 2026

1G SFP PRODUCT FAMILY

The GLC-BX-D-NV modules supports a link length of up to 10km on standard single-mode fiber (SMF, G.652). A GLC-BX-U-NV

Apr 07, 2026

Cisco SFP Modules for Gigabit Ethernet Applications

1000BASE-ZX SFP for long-reach single-mode fibers The 1000BASE-ZX SFP operates on standard single-mode fiber-optic link

Jan 25, 2026

Buy SFP Modules, SR, LR 1G 1000 Base Single, Full Half

These modules can be used with various copper and fiber channel cables to enhance the overall network functionality when

Contact Us

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

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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

