

What is an X2 optical module



Overview

X2 is a standardized package of the 10G optical transponders. X2 are available for both versions 10G Ethernet and 10G Fibre Channel. X2 optical transponder is only applied to the data communication optical fiber connection (not used in the telecommunications transmission network), and their size is. The Cisco ® 10GBASE X2 modules (Figure 1) offer customers a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport applications. Its development was based on former XENPAK standards. The inner function of X2 10Gbit/s transceiver is almost similar with XENPAK so that we also can use X2 transceiver to fulfill all 10 Gigabit Ethernet (10GbE) optical. As defined in X2 Multi-Source Agreement, the X2 transceiver is a compact 10 Gigabit/s optical transceiver designed to use a side rail support system that allows the heat sink and front bezel to be easily adapted to the different needs of the key 10 Gb/sec markets.



Article Content

Aug 13, 2025

X2 Optical Module Introduction

X2 optical modules are available in two circuit interfaces: XAUI and Serial Framer Interface (SFI-4), which can be used for 10G Ethernet and also can be used for OC-192 SDH and 10GFC.

Mar 06, 2026

Optics Transceiver Module Market 2025

The optics transceiver module market is experiencing robust growth driven by the exponential rise in data center investments globally. Hyperscale data center operators are deploying 400G and 800G

Nov 23, 2025

What is X2 Transceiver

As defined in X2 Multi-Source Agreement, the X2 transceiver is a compact 10 Gigabit/s optical transceiver designed to use a side rail support

Jun 30, 2026

Cisco 10GBASE X2 Modules

Product Overview The Cisco® 10GBASE X2 modules (Figure 1) offer customers a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider

Apr 16, 2026

Optical Module Package Types Overview

Optical transceiver module (optical transceiver), referred to as optical module, is an important device in optical communication system. There

Jul 21, 2026

Classification and Types of Optical Modules

The types of optical modules are mainly distinguished by their parameters and characteristics. Current classification methods include: transmission distance, rate/protocol,

Oct 30, 2025

X2 transceiver

The X2 transceiver format is a 10 gigabit per second modular fiber optic interface intended for use in routers, switches and optical transport platforms. It is an early generation 10 gigabit interface

Mar 16, 2026

X2 | Converter | 10GBase-LR | 10GBase-SR | 10GBase-ER

The 10 gigabit small form-factor pluggable (X2) is an optical module transceivers used for both telecommunication and data communications application. The Skylane X2 is a high performance

Jul 14, 2026

Overview 10G SFP+,X2,XENPAK SFP+ and XFP

As defined in X2 Multi-Source Agreement, the X2 transceiver is a compact 10 Gigabit/s optical transceiver designed to use a side rail support system that

Jun 11, 2026

XENPAK and X2 Optical Modules Comparison

XENPAK and X2 module are both from the XENPAK standard evolution. Its internal function modules are basically same with XENPAK, and the circuit board applications are same too, also using one

Jan 01, 2026

Active Optical Module Market 2025

Active Optical Module Market was valued at 5916 million in 2024 and is projected to reach US\$ 15140 million by 2032, at a CAGR of 14.7%

May 25, 2026

10G X2 - Optcore

10G X2 Transceiver 10G X2 transceiver is a hot-swappable optical module supporting four-lane XAUI at Ethernet (3.125 Gb/sec) and Fiber Channel (3.1875

Feb 16, 2026

Cisco X2-10GB-SR 10GBASE-SR X2 Optical

The Cisco X2-10GB-SR is an enterprise-class X2 transceiver module designed for high-speed 10 GigE aggregation in data center and campus networks. This plug

Jan 10, 2026

400G Optical Modules Explained: SR4 Vs. DR4 Vs.

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center

Mar 10, 2026

10G X2 Optical Transceiver Modules | AscentOptics

We could offer 10G X2 optical transceivers include X2 SR,300m over multimode fiber,10km LR,40km ER and 80km ZR over singlemode fiber - AscentOptics.

Aug 11, 2025

Cisco 10GBASE X2 Modules Data Sheet

Note: For optical X2 modules, only connections with patch cords with PC or UPC connectors are supported. Patch cords with APC connectors are not

Jun 01, 2026

Cisco X2-10GB-SR Duplex X2 10Gbps 300m MMF DDM 850nm

Description The Cisco X2-10GB-SR 10GBASE-SR/SW Ethernet transceiver is a Duplex X2 transceiver for optical communications, rated for distances up to 300m and a maximum bandwidth of 10Gbps.

Sep 27, 2025

X2 Optical Module Introduction

X2 optical modules is evolved from the standard of XENPAK, and its internal functional modules are same to XENPAK basically, the circuit board applications are same too .that only need one optical

Aug 03, 2025

Cisco 10GBASE X2 Modules Data Sheet

Read this data sheet to learn the benefits, specifications, and ordering information for the Cisco 10GBASE X2 Modules.

Jul 29, 2025

The Most Comprehensive Guide Of Optical Modules

The optical module serves as a crucial component in optical fiber communication systems, operating at the physical layer, which is the lowest

Apr 02, 2026

Differences and applications of SFP+/XFP/X2 and XENPAK in 10G modules

The 10G SFP+ optical module and the 10G XFP optical module are optical modules that can transmit and receive 10G data signals and can convert and convert light into electricity.

Aug 03, 2025

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

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

Dec 10, 2025

X2 10Gb/s 850nm Multi-mode Transceiver 300m

The X2-10GB-SR Compatible 10GBASE-SR X2 Transceiver Module is a high-performance solution for 10 Gbit/s data transmission in enterprise networks. It uses an 850nm

Aug 20, 2025

OPTICAL X2 Transceiver Module Overview

X2 transceiver modules are available with a variety of transmitter and receiver types, allowing users to select the appropriate one for each link to provide the required optical reach over the available

Jun 13, 2026

10-GB X2 Transceiver Modules Installation note

Overview The 10-Gigabit Ethernet X2 transceiver module is a hot-swappable I/O device that plugs into 10-Gigabit Ethernet ports. Figure 1 shows

May 09, 2026

Cisco 10GBASE X2 Modules

Cisco X2-10GB-ER The Cisco 10GBASE-ER Module supports a link length of up to 40 kilometers on standard single-mode fiber (SMF, G.652). Cisco X2-10GB-ZR: Supports link lengths of up to about

Jun 01, 2026

Optical Module (SFP, SFP+, QSFP, CFP, etc)

Optical Module (SFP, SFP+, QSFP, CFP, etc) Optical Module (SFP, SFP+, QSFP, CFP, etc) There are many types of optical modules. You need to know the

Jul 20, 2026

X2 optical module – Fiber Optic Blog

X2 is physically smaller than XENPAK but maintains the mature electrical I/O specification based on the XENPAK MSA and continues to provide robust thermal performance and electromagnetic shielding.

Contact Us

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