

# **Huawei communication optical module models**





## Overview

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The following article will talk about the common optical module models of Huawei. 100Gb SFP Optical Module Gigabit SFP Optical Module 10 Gigabit SFP+ Optical Module 40G QSFP+ Optical Module 100G QSFP28 Optical Module Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models providing flexible plug-and-play solutions tailored to diverse interface requirements. On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the receiver needs to convert received optical signals into electrical signals. In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long transmission), Stable (ultra-high reliability), and Secure (ultra-solid security). Optical module is an optoelectronic device that performs optical-to-electrical and electro-optical conversion.



## Huawei communication optical module models

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### FAQs About Optical Modules

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For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch model in the Hardware Description. The following figure shows the

### Huawei Campus Optical Module Portfolio

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In addition to the optical-to-electrical conversion function, the optical forwarding module integrates many signal processing functions, such as MUX/DEMUX, CDR, function control, performance data



## **Optical Modules in General-Purpose Computing Scenarios**

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## **Optical Modules in Intelligent Computing Scenarios**

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Huawei provides a full series of pluggable optical modules. A wide variety of modules give you flexible plug-and-play options for all types of interfaces.

## **Constructing Intelligent Ultra-High-Speed**

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The optical-layer AI neurons are a functional module integrated into the latest generation of Huawei oDSPs (also integrated into all OA nodes) to sense the running status parameters of all wavelength



## 10GE SFP+ Optical Modules

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OMXD30000 OSX010000 OSX040N01 OSXD22N00 SFP-10G-BXD1 SFP-10G-BXU1  
SFP-10G-ER-1310 SFP-10G-ER-SM1270-BIDI SFP-10G-ER-SM1330-BIDI SFP-10G-LR-I  
SFP-10G-USR SFP-10G

## Huawei Data Center Network Short-Distance Optical Module Portfolio

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These compact optical transceivers offer a convenient and cost-effective solution for short reach interconnections in the data center, campus, metropolitan-area access and ring network,



## 40Gbps QSFP+ Optical Modules

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QSFP-40G-LR4 QSFP-40G-SDLC-PAM QSFP-40G-SR-BD (02311FPA) QSFP-40G-eSR4  
QSFP-40G-iSR4 QSFP-40G-LX4 QSFP-40G-ER4 QSFP-40G-LR4-Lite QSFP-40G-LX4-MM  
QSFP-40G-eSDLC

## Optical Modules Market Research Report 2034

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The optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034, growing at a CAGR of 11.5%.

## Understanding Optical Modules

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If you know the model or type of an optical module, you can view the section "Pluggable Modules for Interfaces" in the Hardware Description to look up parameters of the optical module, including the



## 01-10 OPTICAL MODULES

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Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+. All optical modules are hot swappable.

### StarryLink Optical Module

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Huawei's StarryLink optical modules for data center networks offer seamless interconnection from GE to 800GE across all scenarios, delivering customers an ultra-reliable, long-distance, and highly secure

### 10 Gbit/s SFP+ Optical Module

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HUAWEI AntiDDoS8000V500R005 Hardware Description 10 Gbit/s SFP+ Optical Module  
You can use different levels of 10 Gbit/s SFP+ optical modules only with 10 GE interfaces.

## Types of Optical Modules

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Therefore, when using such optical modules, select optical fibers of an appropriate length to ensure that the actual receive power is smaller than the overload power. If the optical fibers connected to a long

## Huawei Campus Optical Module Portfolio

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In order to work efficiently, BIDI optical modules must be paired, and the duplexer must be tuned to match the desired wavelengths of the transmitter and receiver to achieve bidirectional data



## **Huawei Introduces Short-Reach Optical Interconnect Module**

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Huawei today unveiled its short-reach optical interconnect module prototype at the Optical Fiber Communication Conference and Exposition (OFC). A testament to Huawei's leading

## **Huawei Unveils StarryLink Optical Modules That**

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At MWC Barcelona 2025, Huawei introduced the StarryLink optical modules, aimed at creating a network experience with "3S" quality (Spanning, Stable, Secure). This launch took place

## **Understanding Optical Modules**

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On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the receiver needs to convert received optical signals into

## **01-09 PLUGGABLE MODULES FOR INTERFACES**

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Huawei routers must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission reliability and may affect service stability.

## **Optical Modules in Intelligent Computing Scenarios**

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## Understanding Optical Modules

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On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the receiver needs to convert received optical signals into electrical signals.

## What Is an Optical Module and Its FAQs (V300)

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As an important part of fiber-optic communication, an optical module is a photoelectric converter which converts electrical signals into optical signals and vice versa. An optical module

## Huawei Optical Module Common Models

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Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei Technologies Co. and originated in Shenzhen.



## HUAWEI Transceiver

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Huawei optical transceivers need to be specific to the model to determine the price. You can choose to purchase compatible optical transceivers. The quality is

## What Is StarryLink Optical Module? Why Do We Need It?

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The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra-long-distance transmission, exceptional reliability, and enhanced security,

## Contact Us

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For datasheets, pricing, or custom optical networking solutions, please visit:  
<https://www.entrenamientointeligente.es>