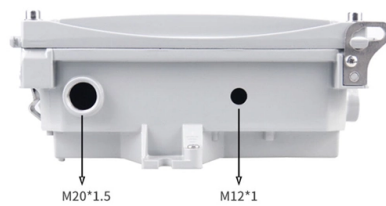


## Where is Huawei s ultra-high-speed optical module



### Overview

Optical Modules in Intelligent Computing Scenarios In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities.

### Key Takeaways

Huawei's ultra-high-speed optical module is the StarryLink series, designed for data center networks with speeds from GE to 800GE, offering ultra-long transmission, high reliability, and robust security.

Huawei's StarryLink optical modules are deployed primarily in data center networks to support ultra-high-speed interconnections, especially in AI-driven environments where large-scale model training demands high bandwidth and low latency. These modules cover speeds from Gigabit Ethernet (GE) up to 800GE, ensuring flexible deployment across various network scales.

#### Key Features

- **Spanning (Ultra-Long Transmission):** Utilizes a unique optical path coupling algorithm to achieve transmission distances double the industry average, supporting interconnections across large data centers.
- **Stable (Ultra-High Reliability):** Incorporates short-distance optical return loss positioning and channel loss resistance technology, enabling rapid fault detection and improving reliability by a factor of ten.

- **Secure (Ultra-Robust Security):** Integrates PHYSEC physical layer encryption, ensuring 100% packet encryption and eliminating data leakage risks .  
Deployment and Availability

These modules are pluggable and compatible with a wide range of interfaces, allowing flexible, plug-and-play installation in Huawei's data center switches and network infrastructure . They are showcased at events like Mobile World Congress 2025, highlighting their role in next-generation data center interconnectivity . Huawei continues to collaborate with industry partners to expand research and deployment of these modules, promoting intelligent network upgrades and generational evolution . In summary, Huawei's ultra-high-speed optical modules are available for enterprise and data center deployment through Huawei's official channels and are designed to meet the demands of high-capacity, secure, and reliable network environments .

## Article Content

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Displaying Optical Module Information

For the optical modules connected to high-speed cables or AOC cables, the Vendor Name field displays the original manufacturer

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The 100 Gbit/s QSFP28 optical modules can only be used with 100 GE interfaces. The wavelength of these 100 Gbit/s QSFP28

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This document explains optical modules, their types, and applications, providing a comprehensive understanding of their functionality

### 10 Gbit/s SFP+ Optical Modules

10 Gbit/s SFP+ optical modules apply to 10 GE optical ports. The wavelength can be 850 nm, 1310 nm, or 1550 nm, and the

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A 40G optical module uses four channels to transmit laser and four channels to receive laser. That is, a total of eight channels are

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Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a

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We connect Moduletek SFP-10G-LR transceiver to Huawei S6700 switch, and demonstrate how to view transceiver

GPON Optical Modules

Guide to Using Pluggable Modules Pluggable Module Adaptation Solution Pluggable Module Specifications FE SFP/eSFP Optical

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