

Huawei s self-produced optical modules



Overview

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. HISILICON is building optical chip factories in several places in China. For example, the Huawei Optical Factory project in Wuhan, Huawei's first domestic chip factory with a total investment of 1.8 billion yuan, is located in the center of Wuhan's Optical Valley, with a total floor area of 208,900. Huawei's StarryLink optical modules offer customers ultra-reliable, long-distance, and highly secure data center network interconnection experiences. These modules include: Huawei emphasizes high-density, low-power, and scalable designs, often combining multiple lanes of 25G, 50G, or 100G per lane to meet.



Article Content

Apr 04, 2026

Construction of HISILICON's Optical Chip Factory | Weyland

Upon completion, the project will be put into production as Huawei's first domestic chip plant, mainly for Huawei to produce its self-developed optical communication chips and modules.

Oct 22, 2025

Huawei Unveils StarryLink Optical Modules That Deliver

BARCELONA, Spain, March 6, 2025 /PRNewswire/ -- At the Mobile World Congress 2025 (MWC 2025), Huawei launched the StarryLink optical modules, designed to

May 06, 2026

DS: Introduction to Huawei's optical fiber chip technology

- Self-developed silicon photonic chips are used in 400G/800G optical modules, realizing optical-electrical integrated design and reducing power consumption by 30%.

Mar 26, 2026

Optical Modules in Intelligent Computing Scenarios

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: Spanning (ultra-long transmission), Stable

Jul 01, 2025

How to Identify Huawei-Certified Optical Modules

Huawei is not responsible for any problem caused by the use of non-Huawei-certified optical modules and will not fix such problems. The methods provided here are only for reference. To

Mar 18, 2026

01-10 OPTICAL MODULES

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.

Oct 15, 2025

Huawei Technical Support

This document provides technical details about 1Gbps eSFP Optical Modules, including specifications and support information.

Apr 17, 2026

Optical Modules in General-Purpose Computing Scenarios

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

Sep 22, 2025

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: Spanning (ultra-long transmission), Stable (ultra-high reliability), and Secure (ultra-solid

Dec 23, 2025

StarryLink Optical Module

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

Jun 10, 2026

Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are

Think of it this way: Chinese module makers first built muscle in a massive domestic "practice arena." They produced 100G and 200G modules at scale, accumulating yield and cost

Aug 03, 2025

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

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,

Mar 16, 2026

Huawei sets up precision manufacturing unit, in drive for

Chinese telecommunications firm Huawei set up a precision manufacturing unit with registered capital of 600 million yuan (\$94.18 million) on

Jun 23, 2026

Understanding Optical Modules

The transmit power of a long-distance optical module is often larger than its overload power. Therefore, when using such optical modules, select optical fibers of an appropriate length to ensure that the

Jun 25, 2026

Constructing Intelligent Ultra-High-Speed

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

Mar 29, 2026

Types of Optical Modules

QSFP+ optical modules support MPO fiber connectors and are larger than SFP+ optical modules. Classified by physical layer standards Different physical layer standards are defined to allow data

May 21, 2026

Huawei's Ascend AI chip ecosystem scales up as China

Huawei's AI server hardware, domestic packaging suppliers, and EDA partners now form the backbone of a China-first chip supply chain.

Dec 08, 2025

Understanding Pluggable Optical Modules

Classified by physical layer standards Different physical layer standards are defined to allow data transmission in different modes. Therefore, different types of optical modules are produced to comply

Jan 25, 2026

Huawei AI CloudMatrix 384 – China's Answer to Nvidia

Huawei AI CloudMatrix 384 – China's Answer to Nvidia GB200 NVL72 China Abundance of Power, 100% Optics, 0% Copper, Power Inefficiency, 2.6x

Oct 26, 2025

Huawei Campus Optical Module Portfolio

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

Dec 23, 2025

Huawei's HiSilicon moving into advanced 5G chip

Sources say that this factory initially used to produce optical communication Kirin chips and modules to gain self-sufficiency and keep a good

Dec 19, 2025

Future All-optical Network Architecture and Key Technologies

Evolving towards the 2030 optical communications network system and architecture is a key issue facing the optical communications industry and requires viable technical options for building future

Dec 22, 2025

Huawei Unveils StarryLink Optical Modules That Deliver

Looking ahead, Huawei aims to collaborate with industry partners to further research and innovate in data center network optical modules, promoting

Aug 01, 2025

Understanding Pluggable Optical Modules

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

Jan 08, 2026

Is Huawei a manufacturer of optical chips or optical modules?

Huawei has developed proprietary optical module solutions, including co-packaged optics (CPO) and silicon photonics-based modules, which allow optical modules to integrate closely with switches and

Jan 01, 2026

Types of Optical Modules

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