

# What type of cable does Huawei use for its optical modules



## Overview

When two optical interfaces have copper modules installed, the interfaces can be connected using a copper cable. GE copper modules work with Category 5 networkAn optical module is a component that completes electrical/optical conversion on an optical network. Figure 3-198 shows the structure of an optical module. An optical Hybrid Cable, also known as the optoelectronic cable is a package of cables that binds the original two wires of the cable into one wire. Ultimately, this mechanism will help in obtaining secure software and hardware coordination. On campus networks, hybrid cables are typically used to connect access switches and WLAN APs, so that the access switches can supply PoE power to the APs. Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei Technologies Co. is a telecommunications network solutions provider.



## Article Content

Apr 20, 2026

Optical fiber: the foundation of smart cities

14 Optical fiber: the foundation of smart cities Behind the scenes, networks made of all-optical fiber provide the infrastructure for the future growth of cities. As data

Feb 17, 2026

Understanding Optical Modules

If an optical module is installed in a running device, you can run the display interface transceiver command to view parameters of the optical module, including the center wavelength,

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Introduction of Optical Modules on Huawei Switches

Check Optical Module Parameters: If an optical module is installed in a running switch, you can run the display transceiver command to view parameters of the

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Understanding 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.

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Huawei Campus Optical Module Portfolio

When two optical interfaces have copper modules installed, the interfaces can be connected using a copper cable. Currently, Huawei offers only GE copper modules with RJ45 interfaces.

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Huawei introduces key factors of its optical hybrid cable

An optical Hybrid Cable, also known as the optoelectronic cable is a package of cables that binds the original two wires of the cable into one wire.

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

Huawei provided a 100G QSFP-BIDI multimode optical module solution, enabling reliable 150-meter transmission with no changes required to the existing cabling infrastructure. This met the

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### Optical Fiber/Optical Cables/AOC Routing and Bundling

This section uses the optical fiber as an example to describe how to lay out and bundle cables. The optical cable and AOC differ from the optical fiber only on the connector. For details about optical

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### FAQs About Optical Modules

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

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### Huawei Optical Module Common Models

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

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### What Is Hybrid Cable?

Drawing on a special fiber-copper incorporation structure and a custom protective layer, the hybrid cable ensures that optical signals and electrical signals do not interfere with each other during

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### Types of Optical Modules

Multimode optical modules are used with multimode fibers. Multimode fibers have lower transmission performance than single-mode fibers because of modal dispersion, but their costs are also lower.

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### Huawei Unveils StarryLink Optical Modules That ...

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

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## 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. SFP: small form

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## 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

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## Understanding Pluggable Optical Modules

This type of optical module is mainly used in scenarios where one CSFP optical module connects to two BIDI SFP optical modules. It is essential to ensure that the transmit and receive wavelengths are

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## 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

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## Understanding Pluggable Optical Modules

DWDM and CWDM modules are used for long-distance transmission. The transmit power of a long-distance optical module is often larger than its overload power. Therefore, when using such optical

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## Installing Optical Transceivers and Connecting Optical Fibers

Before connecting optical fiber cables, read the following precautions: Do not overbend optical fibers, and the radius should not be shorter than 40 mm. Do not bundle the optical fibers too tight.

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## Fiber-optic cable

Different types of cable are used for fiber-optic communication in different applications, for example long-distance telecommunication or providing a high

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What Is an Optical Module and Its FAQs (V200)

The biggest difference between colored optical modules and other types of optical modules lies in the center wavelength. Generally, the center wavelength of an optical module can be 850 nm, 1310 nm,

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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,

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HUAWEI Pura 80 Pro Specifications

HUAWEI Pura 80 Pro, fashion next. Come with glazed texture and Sunburst Pattern design, 1-inch Ultra Lighting Camera, Ultra Chroma XMAGE Camera and Ultra Lighting Macro Telephoto Camera.

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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

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Types of Optical Modules

DWDM and CWDM modules are used for long-distance transmission. The transmit power of a long-distance optical module is often larger than its overload power. Therefore, when using such optical

## Contact Us

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