

# Huawei Classified Optical Module





## Overview

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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). 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. An eSFP module is an SFP module that supports monitoring of voltage, temperature, bias current, transmit optical power, and receive optical power. If an optical module meets the following conditions, it has been certified by Huawei.



## Huawei Classified Optical Module

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# Optical Modules in Intelligent Computing Scenarios

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## Huawei Technical Support

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Learn how to display optical module information on Huawei devices using specific commands and understand the diagnostic details of optical modules.



## Understanding Pluggable Optical Modules

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Optical Module Classification Optical modules are available in various types to meet diversified requirements. Classified by transmission rate Currently, the transmission rates of optical modules

## Types of Optical Modules

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## Types of Optical Modules

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For details, see Standards compliance of the specific optical module. Classified by modes Optical fibers are classified into single-mode and multimode fibers. Therefore, optical modules are also classified

## 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.

## Optical Modules in General-Purpose Computing Scenarios

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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

## Understanding Pluggable Optical Modules

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Optical modules are available in various types to meet diversified requirements. Classified by transmission rates. Currently, the transmission rates of optical modules cover a wide range.

## Types of Optical Modules

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Optical modules are available in various types to meet diversified requirements. Depending on transmission rates, optical modules are classified into 100GE, 40GE, 25GE, 10GE, FE, and GE



## Types of Optical Modules

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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

## Huawei Optical Module Common Models

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## Huawei Optical Switch View Optical Module Commands

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Taking the Huawei 5700 series switches as an example, the commands to view optical module information are as follows:

## Displaying Optical Module Information

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When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module quality. The functions include the installation and removal, transmit and

## Optical Module Encapsulation Types

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The eSFP and SFP optical modules have the same functions and services. They can substitute for each other as long as they have the same optical power, sensitivity, and transmission distance. The eSFP



## **Huawei patent shows new optical module with improved**

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Huawei recently applied for an optical module and communication tech patent which aims to reduce the cost of manufacturing for effective camera

## **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.

## **Why Are Alarms About Optical Modules That Are Not Certified for Huawei**

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Therefore, alarms about optical modules that are not certified for Huawei Ethernet switches are generated. You can run the transceiver non-certified-alarm disable



command to disable the alarm

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

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To address these challenges, Huawei's StarryLink optical modules deliver a high-quality network experience with three key capabilities: Spanning:

## **Get to Know the Names of CloudEngine Series Switches and Modules**

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Depending on the airflow direction, fan modules are classified into B (back-to-front airflow, air exhaust on fan module panel) and F (front-to-back airflow, air intake on fan module panel). Figure 1-3 shows the



## Understanding Optical Modules

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### **ALM-3276800044 An Optical Module Installed on the Device Is**

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Possible Causes Cause 1: The optical module is not a Huawei-customized optical module. If this optical module was delivered from Huawei early. Cause 2: Temperature of the

## **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.



## Contact Us

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