# ZITHA TECH SPECIALTY CABLES (Pty) Ltd

# Regarding H3C and Huawei optical module models



## Overview

Optical Modules in General-Purpose Computing Scenarios Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center netw.

## Key Takeaways

H3C and Huawei optical modules are pluggable transceivers used in switches and data centers, but Huawei modules are generally not directly compatible with H3C switches due to vendor-specific authentication and encryption.Overview of Optical Modules

Optical modules are photoelectric transceivers that convert electrical signals into optical signals for transmission over fiber and then back into electrical signals at the receiving end. They are widely used in telecommunication networks and data centers to meet increasing bandwidth demands. Common types include SFP, SFP+, QSFP, QSFP28, CFP, CFP2, CFP4, and CXP, supporting speeds from 10G to 400G and beyond . Huawei offers a portfolio of StarryLink optical modules designed for plug-and-play deployment in data center networks, supporting flexible interface requirements and high-speed interconnects . H3C modules are similarly used in enterprise and carrier-grade switches, with authentication mechanisms to ensure device compatibility .

Compatibility Between H3C and Huawei Modules

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Huawei optical modules cannot be directly used on H3C switches because both vendors implement vendor-specific authentication and encryption. These mechanisms require modules to have special codes to match the switch hardware and firmware, preventing unauthorized or third-party modules from functioning normally . However, some third-party vendors produce compatible modules with pre-written codes to bypass these restrictions, allowing them to work on H3C switches while reducing costs . When a non-H3C module is installed, H3C switches may generate alarm messages indicating the module is uncertified. These alarms do not prevent the module from functioning, but H3C does not guarantee performance or maintenance for third-party modules. CLI commands are available to suppress these alarms on H3C switches .

Recent Developments in Optical Technology

Huawei has been actively investing in high-speed optical chip technology, including indium phosphide (InP) chips for 800G and 1.6T optical modules. These chips are critical for AI data centers, 6G all-photonic wireless base stations, and high-speed interconnects, offering performance advantages over traditional silicon-based modules . This indicates Huawei's ongoing focus on next-generation optical modules for high-bandwidth applications.

Summary

• Function: Convert electrical signals to optical signals and vice versa for high-speed data transmission.

• Types: SFP, SFP+, QSFP, QSFP28, CFP, CFP2, CFP4, CXP.

• Compatibility: Huawei modules are generally not compatible with H3C switches without third-party modifications.

• Third-party modules: Can provide cost-effective alternatives with pre-written codes to bypass vendor restrictions.

• Industry trend: Huawei is advancing high-speed InP optical modules for 800G–1.6T applications, supporting AI and 6G infrastructure. Understanding these aspects is crucial for network engineers and data center operators when selecting optical modules for H3C or Huawei equipment.

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## Article Content

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models

On the models of H3C optical module and Huawei optical module

Today, the editor has collected information about H3C optical module model and Huawei optical module model. Lets see what you

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

Optical Components and Modules

Optical Module Names This topic describes the names of optical modules used by WDM products.

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What are the models of Cisco□Huawei□H3C 40G QSFP+ Optical

Although both 40G QSFP+ optical modules and 40G CFP optical modules can be used in 40G networks, 40G QSFP+

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If you''re an enterprise-level user or it operations personnel looking for stable, efficient, and highly compatible network

Huawei Optical Module Common Models

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei

01-10 OPTICAL MODULES

Optical modules are available in various types to meet diversified requirements. Depending on transmission rates, optical modules

Support

You can choose optical modules as needed for data transmission over optical fibers. The optical modules include optical

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Types of Optical Modules

Optical modules are encapsulated in different modes to provide different structures. Huawei routers support optical modules of the

Types of Optical Modules

Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP,

Which model of 40G QSFP+ optical module are popular for Huawei,

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Optical Transceivers Manufacturer | Can Original HUAWEI Optical Module ...

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Overview A transceiver module converts electrical data signals to laser light, which is then transmitted over an optical fiber. It can

Checking the Optical Module Type

The selected optical modules must be supported by the optical interfaces. Check whether the optical module used on the switch is

Understanding Optical Modules

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

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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

Optical Transceiver Manufacturer,Model Of 40G QSFP+ Optical Module

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The following is a list of common Cisco, Huawei and H3C 40G QSFP+ optical module product descriptions and corresponding

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Huawei Enterprise Support Community

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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

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100GE QSFP28 Optical Modules Understanding Optical Modules What Is an Optical Module Types of Optical Modules Parameter

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