ZITHA TECH SPECIALTY CABLES (Pty) Ltd

H3C optical module for home use



Overview

Optical modules transmit signals over optical fibers. Optical transmission features low loss and is fit for long distance transmission.

Key Takeaways

For home networking, H3C SFP or SFP+ short-range optical modules are the most practical, while high-performance enterprise modules are generally unnecessary.Recommended Module Types for Home Use

For residential setups, small form-factor pluggable (SFP) modules are ideal because they are compact, easy to install, and support typical home network speeds. Modules like the H3C SFP-GE-SX-MM850-A or SFP-GE-SX-MM850-D provide 1 Gbps connectivity over multi-mode fiber with link distances up to 550 meters, which is more than sufficient for home or small office environments . These modules use LC duplex connectors and are hot-swappable, making installation straightforward.

Data Rate and Fiber Considerations
• Data Rate: Home networks rarely require speeds above 1 Gbps, so modules supporting 1 Gbps (1000BASE-SX or LX) are sufficient .

• Fiber Type: Multi-mode fiber (MMF) is easier and cheaper for short distances, while single-mode fiber (SMF) is used for longer distances but is generally unnecessary for home use .

• Transmission Distance: Short-range modules (up to 2 km) are suitable for home networks, avoiding the complexity and cost of long-range enterprise modules .
Modules to Avoid for Home Use

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High-performance modules like the H3C SFP-GE-LX-SM1310-D, designed for enterprise networks and data centers, are not recommended for home users. These modules support advanced features such as auto-negotiation, digital diagnostics monitoring (DOM), and high stability for long-term operation, which are unnecessary for typical residential setups and may complicate installation .

Practical Tips
• Check Compatibility: Ensure the optical module matches your H3C switch model and fiber type.

• Connector Type: Use LC connectors for home installations, as they are standard and easy to handle .

• Short-Range Modules: Focus on modules labeled for short-range (≤2 km) to reduce cost and simplify setup .

• Plug-and-Play: Choose modules that are hot-swappable and require minimal configuration for ease of use. In summary, for home networking, H3C SFP or SFP+ short-range modules with 1 Gbps speed and LC duplex connectors provide reliable, cost-effective optical connectivity without the complexity of enterprise-grade modules. Avoid high-end modules designed for data centers unless you have specific advanced requirements.

Article Content

Support

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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

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H3C Compatible 25GBASE-LR-S SFP28 1310nm 300m DOM Duplex

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The H3C compatible SFP28 transceiver provides 25GBase-LRS throughout up to 300m over single mode fiber (SMF) using a

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PoE optical transceiver modules available for H3C devices use PELC connectors. With conductive terminals, a PELC connector can

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· Intelligent O&M—Intelligent diagnosis of optical links to guarantee link quality in real time, diagnosis, analysis, and

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H3C Products Catalogue

H3C FS5500V2-EI series switches support a new generation of optical and electrical combined interfaces and provide 300m PoE++

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Specifications A transceiver module that has "MM" in its name supports multi-mode optical fibers. A transceiver module that has

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By default, a large number of alarm messages will be generated if the module is verified as non-H3C original. H3C

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Technical Documents Navigate by product category to obtain documentation and videos that will help you install, deploy, configure,

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Support As a leader in digital solutions, H3C supports fully integrated IT infrastructures in environments ranging from traditional

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H3C Compatible SFP+ transceiver supports up to 2km over OS2 SMF via an LC duplex connector. This

100GBASE-LX4 QSFP28 1310nm 2km/100m SMF/MMF

NDD modules are fully compatible with Huawei, Cisco and H3C switches, and can provide a full range of

H3C Compatible Transceivers and Cables

H3C Compatible SFP-GE-T-D 1000BASE-T SFP Transceiver H3C Compatible SFP-GE-T-D 1000BASE-T Copper 100m SFP

SFP-XG-LH40-SM1550-D

This H3C SFP-XG-LH40-SM1550-D is a high performance and cost effective SFP+ transceiver module supporting data-rate of

Compatible with H3C optical module Gigabit single mode single

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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