

Does the H3C optical module need to be paired



Overview

Support Copper transceiver modules, also called RJ-45 modules, transmit electrical signals over twisted pair cables and do not provide H3C optical modules.

Key Takeaways

H3C optical modules do not require pre-pairing, but the modules at both ends of a fiber link must be compatible in type, wavelength, and data rate to function correctly. Compatibility Requirements

H3C optical transceivers, such as SFP, SFP+, QSFP, and CFP modules, are designed to work with standard optical fibers and connectors like LC or MPO . While there is no need to “pair” modules in advance, the transceivers at each end of a fiber link must match in key parameters:

- Type of module: Both ends should use compatible transceivers (e.g., SFP to SFP, QSFP28 to QSFP28).
- Wavelength: Modules must operate at the same wavelength (e.g., 1310 nm or 1550 nm).
- Data rate: The interface speed must match the transceiver's supported rate (e.g., 1 Gbps, 10 Gbps, 25 Gbps) and duplex mode .

- Fiber type: Single-mode or multi-mode fiber must be consistent with the transceiver specifications.

Installation Guidelines

- Insert the transceiver securely into the optical interface.
- Use the correct fiber patch cord (LC, MPO, or hybrid copper-fiber cable for PoE modules) to connect the devices .
- Verify the interface status using commands like `display transceiver interface` or `display transceiver diagnosis interface` to ensure the module is functioning and parameters are within normal ranges .

Troubleshooting Tips

If the optical link does not come up:

- Check that the transceivers at both ends are compatible in type, wavelength, and data rate .
- Inspect the fiber connectors for cleanliness and proper insertion.
- Test the transceiver with another known-good module to isolate whether the issue is local or at the peer end.
- Use diagnostic commands to check for alarms such as RX signal loss or TX faults .

Summary

H3C optical modules do not need to be pre-paired, but successful communication requires that the transceivers at both ends of the fiber link are compatible in type, wavelength, data rate, and fiber type. Proper installation, connector selection, and interface verification are essential to ensure reliable operation.

Article Content

H3C optical modules need to be paired

H3C switches perform authentication on inserted optical modules. By default, a large number of alarm messages will be generated if

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To connect a fiber port, install a transceiver module, for example, SFP, SFP+, SFP28, or QSFP28 transceiver module in the fiber

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Fiber Optic Mode : If long-distance transmission or high-reliability connection is required, it is recommended to enable fiber optic

H3C Transceiver Modules User Guide

Preface H3C Transceiver Modules User Guide describes the types, views, and specifications of transceiver modules and network

Compatible with H3C optical module Gigabit single mode single

Fiber Optic Receivers Compatible with H3C optical module Gigabit single mode single fiber 1310/1550nm 3KM 20KM 40 80KM

What Is Optical Module Coding Compatibility?

Optical module coding can be regarded as a key to match a switch, which is like a large lock. There are numerous

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