

## Article Overview

Huawei GE optical ports support SFP modules for 1 Gbit/s Ethernet, with options for combo interfaces and certified optical modules to ensure reliable operation.

## Types of GE Optical Ports

Huawei switches provide GE SFP optical ports that can operate at 1 Gbit/s using SFP modules. Some switches feature combo interfaces, which include both an electrical (RJ45) port and an optical (SFP) port sharing a single forwarding interface. Only one of the two can be active at a time, and the mode can be switched according to network requirements .

## Compatible Modules

- o Certified Huawei SFP modules are recommended to ensure stability and full functionality. Non-certified modules may trigger alarms or cause intermittent link issues, and Huawei does not provide support for faults caused by non-certified modules .
- o GE optical ports support 1000BASE-LX, 1000BASE-SX SFP modules, and some models also support GE copper modules or AOC cables in later software versions .
- o To verify module certification, use the command `display transceiver` or check the Vendor Name field; certified modules display "HUAWEI" .

## Configuration

For combo interfaces:

- o By default, the interface operates in electrical mode.
- o To switch to optical mode, enter interface view and execute: `combo enable fiber`
- o To revert to electrical mode: `undo combo enable fiber`
- o Ensure the same configuration is applied on the peer device to establish a link . For standard GE optical ports, simply insert a compatible SFP module and connect the fiber. Use `display transceiver interface interface-type interface-number` to view module details, including type, wavelength, transfer distance, and diagnostic monitoring status .

## Monitoring and Troubleshooting

- o Use `display transceiver` to check receive and transmit power, module type, and vendor information.
- o If a non-certified module is installed, the switch may generate alarms such as `hwOpticalUnauthorized`, and the interface may fluctuate between UP and DOWN states .

# Huawei switch GE optical port

- o Ensure proper insertion orientation for modules and verify that the fiber type matches the module specifications (single-mode or multi-mode).

## Best Practices

- o Always use Huawei-certified optical modules for GE ports to avoid service instability.
- o For combo interfaces, only one port (optical or electrical) should be active at a time.
- o Regularly monitor optical port statistics to detect potential issues early, including signal power and link status. By following these guidelines, Huawei GE optical ports can provide reliable 1 Gbit/s connectivity for enterprise networks, supporting both fiber and copper connections where applicable .

How Do I Select Optical Modules and Fibers? Can GE Optical Modules Be Used on 10GE Ports? What Type of Cable Can a 40GE

However, on a fixed switch, downlink optical ports support low-speed optical modules, but uplink optical ports do not. You can use a

Before You Start Before using the optical /electrical module, please understand the risk of using the non-certified optical /electrical

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal

Converted interfaces go Up after the switch restarts and the configurations delivered when the split interface is in

The CloudEngine S5755-H series high-quality optical port switches are a new-generation product launched by Huawei for the Wi-Fi 7

This article takes the Huawei AR5710S-S8T2X router as an example to explain how to switch the optical and

Huawei offers four models of original electrical port SFP-GE-T modules on its official website. Moduletek Laboratory

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper

CE88-D24S2CQ (24-Port 10GE/25GE (SFP28) and 2-Port 40GE/100GE (QSFP28) Interface Card) Version Mapping Table 8-22

## Huawei switch GE optical port

CloudEngine S5732-H Series Hybrid Optical-Electrical Switches CloudEngine S5732-H series hybrid optical-electrical switches are

Use the command display transceiver to view the optical module information of all optical ports, and use the command

Optical transceivers are widely applied in switches, network cards, routers and other communication devices.

Huawei CloudEngine S5735-S-V2 series all-optical switches are standard gigabit Ethernet switches that provide all GE downlink

For the S5731-H and S5731S-H optical-electrical hybrid models, the four 10GE optical-electrical hybrid ports and the four 10GE SFP+

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

Web: <https://morwarreconst.co.za>

