

Article Overview

Huawei switch ports can be switched between electrical and optical modes using specific commands, depending on whether the port is a combo port, SFP28, or QSFP28 interface.

Combo Ports (GE Combo)

A combo port consists of one electrical (copper) interface and one optical interface sharing a single internal forwarding channel. Only one interface can operate at a time; enabling one disables the other. By default, combo ports operate in electrical mode. To switch to optical mode:

- o Enter the interface view:

```
system-viewinterface GigabitEthernet0/0/0
```

- o Enable optical mode:

```
combo enable fiber
```

- o To revert to electrical mode:

```
undo combo enable fiber
```

- o Return to user view with:

```
return
```

Note: The same configuration must be applied on the peer device. The optical interface will only work after switching to fiber mode, and no copper module should be installed in the optical slot .

SFP28 and QSFP28 Ports

Huawei switches like the S5732-H24UM2CC and S5732-H48XUM2CC support mode switching and interface splitting for SFP28 and QSFP28 ports. Use the command:

```
set device port-config-mode enable
```

This allows you to configure different working modes, such as:

- o 425GE + 240GE: Four SFP28 ports at 25 Gbit/s, two QSFP28 ports at 40 Gbit/s

- o 425GE + 410GE + 40GE: Four SFP28 ports at 25 Gbit/s, one QSFP28 split into four 10GE ports, the other at 40 Gbit/s

- o 425GE + 40GE + 410GE: Four SFP28 ports at 25 Gbit/s, one QSFP28 at 40 Gbit/s, the other split into four 10GE ports

- o 425GE + 810GE: Four SFP28 ports at 25 Gbit/s, both QSFP28 ports split into four 10GE ports each .

Key Considerations

Huawei Switch Optical Port Mode Change

- o Multiplexing: Combo ports share one interface view; configure rate, duplex, and other attributes in the same interface view.
- o Auto Mode: If a combo port is in auto mode and an optical module is installed, the port will operate as optical after a device restart.
- o Compatibility: Ensure SFP/SFP28/QSFP modules are compatible with Huawei devices to avoid errors or alarms.
- o Layer 2/3 Switching: Some Huawei switches default to Layer 2; switching to Layer 3 requires portswitch commands with a 30-second interval between operations . By following these commands and considerations, you can effectively convert Huawei switch ports between electrical and optical modes and configure high-speed optical interfaces for your network.

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

If the local combo optical interface is connected to a remote optical interface, configure the combo interface to work in

You can do this by either changing the VTP version on the Cisco edge switches to VTP version 3, or by changing the

This guide dives into the step-by-step process of port configuration on Huawei switches, while addressing the often

S1720, S2700, S3700, S5700, S6700, S7700, and S9700 Series Switches Common Operation Guide (V200)
This document

In this post, we will explore the top 5 Huawei display commands that can make your daily tasks easier and improve

Check the Port Mode field in the command output. This document describes the principles and configurations of interfaces and

The `combo-port` command configures the working mode of a combo interface. The `undo combo-port` command restores the default

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

I will give an example of setting up ports on Huawei switches. For the test, I will execute commands on the

Huawei

This page provides configuration commands for Ethernet interfaces on Huawei devices, covering settings like duplex mode and auto

Configuring Port Split for a Switch Context The port split function allows a high-bandwidth physical port on a switch to

As technology advances, networking switches have become an integral part of the IT infrastructure. They play a

When the working mode of an interface is changed from auto-negotiation to non-auto-negotiation, the interface works

Checking Service Interface Indicators to Determine the Interface Status Observe service interface indicators to quickly identify the

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

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