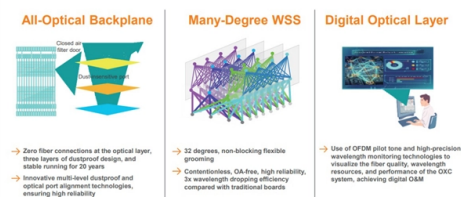


Electronic port optical modules cannot communicate bidirectionally



Overview

The single-fiber bidirectional optical (BiDi) modules must be used in pairs; otherwise, the two ports cannot be connected. For example, if one end uses the TX1310/RX1490 module, the other end must use the TX1490/RX1310 module. BiDi optical modules can do this by utilizing full-duplex communication over a single fiber strand via two wavelengths. By reading this blog, you will understand how SFP BiDi technology allows you to save fiber, reduce costs, and simplify installation while enabling your network to increase. Based on typical issues encountered with optical modules in daily switch applications, this document summarizes basic troubleshooting steps for resolving common faults: 1. Check compatibility between the optical module and switch Most switch brands have specific compatibility requirements. Customers in the use of optical modules will more or less encounter a variety of failure problems, such as optical module model selection is correct, the use of jumper is correct and some common problems, customers have the ability to judge and have a clear solution, but for some of the use of. For DS110DF111, it is followed by a 10G SFP optical module, but after repeated insertion and removal, the optical module cannot be used, and the link status is displayed down.



Article Content

Hot

What Is an Optical Module and Its FAQs (V200)

Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types, and naming conventions of optical modules, causes of

Nov 24, 2025 Hot

Guidelines for Interoperability and Compatibility of

If two modules with similar appearances are not noticed, they may be mixed or optical modules of the same size may be inserted into the wrong switch port. In

Mar 10, 2026 Hot

BiDi Single-Fiber Bidirectional Optical Module Details

The interface of optical module is mainly divided into single-fiber bidirectional BiDi, dual-fiber bidirectional (Deplx) and other types. In WDM system, the line transmission method mainly

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Addressing SFP Failures: Fix Your Malfunctioning SFP

Have you ever plugged an optic SFP transceiver but discovered that the connection didn't work? SFP failure may be caused by several aspects. Here

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Summary of common problems and solutions of optical modules in

Problem 1: The optical port lamp does not light up after the two optical modules are interconnected Cause 1: The parameters of the optical modules at both ends do not match, such as wavelength, rate

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What are electrical port optical modules?

Match different: the electric port module is usually used with Category 5, Category 6, Super Category 6 or Category 7 cables, while the optical module is usually connected with the optical fiber patch cords.

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Why Cannot Connected Optical Ports Go Up After Single-Fiber ...

The single-fiber bidirectional optical (BIDI) modules must be used in pairs; otherwise, the two ports cannot be connected. For example, if one end uses the TX1310/RX1490 module, the other end must

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Diagnosing and Solving Common Optical Transceiver Failures

Unlock insights into optical transceiver issues: docking failures, troubleshooting steps, and protective measures for optimal performance and longevity.

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Port: Optical Ports on the AC Cannot Go Up

Check the model and working mode (single-mode or multimode) of the optical modules on the connected devices. Use the patch cords accordingly. If the optical port still fails to go Up, replace the

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Differences Between Electrical Port Modules And Optical Port Modules

An electrical port module, also known as an optical-to-electrical port converter module, is a hot-swappable device with an SFP form factor. It features an RJ45 connector and uses UTP cables as

Aug 28, 2025 Hot

How To Check If Interconnected Optical Ports Cannot

Some non-certified optical modules have defects in data bus designs. Using such an optical module on a device causes abnormality of the connected data bus on the

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Solved! wiTECH 2.0 cannot Communicate with Any

Here are some solutions of Micropod wiTECH 2.0 communication failure with all modules. Theory of operation: Below are few different ways

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The Difference Between Single/Dual Fiber and

As fiber optic networks continue to evolve, selecting the right optical transceiver becomes increasingly important. Whether you're designing a short

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Troubleshooting Optical Transceiver Issues: A

Therefore, it's crucial to troubleshooting any optical transceiver issues promptly. This article will provide a comprehensive guide on how to troubleshoot

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How do single-optical-fiber bidirectional communications

I was under the impression that two fibers are always required for bidirectional communication. However, recently I have encountered several

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Understanding Engine Control Module No

With any communication network, the resistance in the circuit, resulting voltage and circuit condition can determine if information is being

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How do single-optical-fiber bidirectional communications

However, recently I have encountered several devices that utilize a single fiber while providing bidirectional communication. These devices are

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The Common Issues of Optical Transceivers and How to Diagnose

Learn the most common optical transceivers issues and practical diagnosis methods to easily troubleshoot optical link faults.

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DS110DF111: the SFP optical port fails to be inserted

For DS110DF111, it is followed by a 10G SFP optical module, but after repeated insertion and removal, the optical module cannot be used, and the link

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Optical Module Application: Common Problems & Troubleshooting

Based on typical issues encountered with optical modules in daily switch applications, this document summarizes basic troubleshooting steps for resolving common faults:

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Case Study: Optical Modules on the Local and Remote Devices Cannot ...

Case Study: Optical Modules on the Local and Remote Devices Cannot Communicate
Symptom An optical interface of a CE switch is connected to a remote device through an optical

Jul 29, 2025 Hot

Use of Third-Party Optical Modules

Although Extreme Networks does not block third-party optical modules, we cannot ensure that all third-party optical modules operate properly in all Extreme Networks switches. The customer assumes all

Aug 25, 2025 Hot

Summary of common problems and solutions of optical modules in

Solution: Check whether the working parameters, interface information and receiving and sending of the optical module are normal, and then check the optical fiber jumper, or try to replace the optical fiber

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PCB Interfaces and Communication Protocols | Sierra

PCB interfaces are categorized into wired interfaces, like UART, I2C, and PCIe, and wireless interfaces, such as 5G, Wi-Fi, and LoRa.

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Differences Between SFP And BiDi SFP--ETU-LINK

As we learned, a common SFP transceiver is generally with two ports, one is TX port to transmit the signal, and the other one is RX port to receive signals. This means

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Optical Module: Typical Optical Module Troubleshooting Procedure

If it is not a Huawei-certified optical module, replace it with a Huawei-certified optical module. If the optical module is installed on a GE port, run the display interfaceGigabitEthernet x/x/x command to

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Optical module common faults and solutions

In this article, we will focus on teaching you how to troubleshoot and solve the common three categories of optical module failure. First, the transmission class of the optical module fault

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Optical Module Failure Diagnosis and Prevention:

A comprehensive guide on Optical Module Failure diagnosis and prevention to maintain network stability through effective troubleshooting,

Dec 03, 2025 Hot

BiDi Optical Modules: Unlocking Single-Fiber

Comprehensive guide on BiDi Optical modules, detailing single-fiber bidirectional connectivity, deployment tips, troubleshooting, and multi-speed

Apr 13, 2026

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