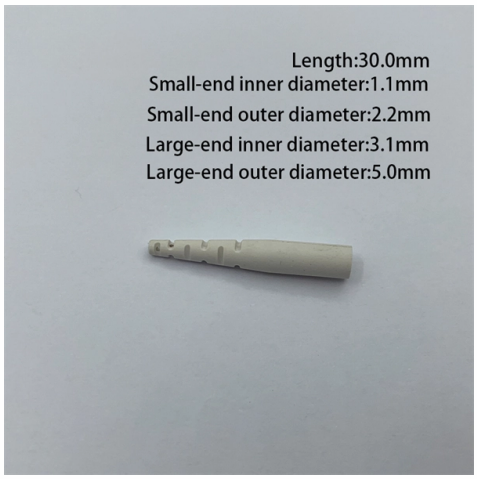
Huijue switch cannot connect to fiber optic cable



Overview

100G port interface between CE6870-24S6CQ-EI and USG6716E There are issues sometimes to make optical ports to go UP, especially with 100G or 25/40G ports.

Key Takeaways

A Huijue PoE switch cannot directly transmit power over fiber optic cables, but it can connect to fiber networks using SFP modules or media converters.

Why Direct Connection Fails

Fiber optic cables transmit data using light and do not conduct electricity, so Power over Ethernet (PoE) cannot work directly over fiber cables.

Po

E requires copper cables (like Cat5e, Cat6, or Cat6a) to deliver both power and data to devices such as IP cameras or Wi-Fi access points. Attempting to plug a fiber cable directly into a standard PoE port will not establish a connection.

How to Connect Using Fiber

Use SF

P Ports: Many Huijue switches include SFP or SFP+ ports, which are modular interfaces that support fiber optic transceivers. Insert a compatible SFP module into the switch and connect the fiber cable to the module.

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Ensure the SF

P module matches the fiber type (single-mode or multi-mode) and network speed (1G, 10G, etc.),. Check Duplex Connections: Fiber transceivers typically require duplex fiber cables with two strands—one for sending and one for receiving. Make sure the connections are reversed between the two devices (A to B, B to A) to enable proper communication.

Use Media Converters for Po

E: If you need to deliver PoE over long distances via fiber, use a PoE media converter. The fiber cable runs to the media converter, which converts the optical signal back to copper Ethernet while supplying power to connected devices. Then, connect the Huijue switch to the media converter using a standard Ethernet patch cable.

Clean and Inspect Connectors: Fiber connections are sensitive to dust and contamination.

Clean L

C connectors with lint-free wipes and isopropyl alcohol to prevent signal loss. Verify Configuration: After physical connections, configure the switch to recognize the SFP module and ensure network parameters like VLANs or IP addresses are correctly set.

Troubleshooting Tips

Check indicator lights on the SFP port; a “LOS” (Loss of Signal) LED indicates connectivity issues.

Swap SF

P modules or fiber cables with known-good units to isolate hardware problems. Ensure firmware on the switch is up to date to avoid compatibility issues. For long fiber runs, consider using an OTDR or power meter to measure signal strength and detect breaks or attenuation.

By following these steps, you can integrate a Huijue switch into a fiber optic network while maintaining PoE functionality through media converters or hybrid setups.

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Article Content

100G port interface between CE6870-24S6CQ-EI and USG6716E

There are issues sometimes to make optical ports to go UP, especially with 100G or 25/40G ports. In this KB I will provide some information that needs to be checked to solve this issue.

Multiple Huijue Fiber Optic Switches Configuration

In summary, bulk switch configuration is a very useful tool when a large number of switches need to be configured quickly, consistently, and reliably to improve the efficiency and ...

How do you connect a switch to fibre?

By following these steps and considerations, you can effectively connect a switch to a fiber optic network, ensuring high-speed and reliable data transmission. Fiber optics offer significant

Fiber port of switch does NOT working

This is a quick video with a few tips I''ve picked up over the years for working with fiber connections on Cisco networking equipment. My first recommendation is to clean the fiber

How to Connect Multiple Ethernet Switches Using Fiber Optic Cables ...

To connect multiple Ethernet switches, the best way is to use a multi-strand fiber cable. The 4-strand pre-terminated fiber optic cable consists of four individual strands or fibers of glass or

Troubleshooting S Series Switch Port and Interface Problems

When connecting two devices, check whether optical modules match optical interfaces, whether optical modules match fiber models, and whether optical modules and fibers are connected correctly.

How to solve the problem of uplink port not recognized by the switch?

When a switch does not recognize an uplink port, it can cause disruptions in network connectivity, as the uplink port is critical for connecting to other switches or routers. Here are several

Connecting Network Switches via Fiber

Always integrate duplex (two strand) fiber optic cabling or higher strand counts. Most modern SFP transceiver modules feature duplex LC connections. Terminate your fiber optic cabling with two LC

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Fiber Network Troubleshooting – Common Issues & Fixes

Learn how to troubleshoot fiber networks. Identify common issues like high loss, dirty connectors, and signal drops, with practical solutions for optical links.

How to Connect two PoE switch with fiber optical cable

Firstly, insert SFP module into media convertor and plug in the fiber optical cable. Next Connect the PoE switch with media convertor by using Ethernet patch cord.

How to Make the Fiber Optic Patch Cords?

Producing high-quality fiber optic patch cords involves precise steps and procedures. This comprehensive guide will walk you through the entire process of making fiber optic patch cords.

MoCa with fiber Internet : r/HomeNetworking

I currently have cable internet with a setup that includes MoCA adapters at several devices. I will soon be getting fiber internet from a different provider and would like to maintain the MoCA connections at

How to connect a new optic fibre to an ethernet switch

As we speak I just have optic fibre (Community Fibre) connected to my Huawei modem / Linksys Velop which will be connected to a new POE switch (need to identify the best model to be

Is it possible to connect a router and a switch using fiber-optic cable ...

Second question: Is there a way to connect a router and a switch using fiber-optic cable? I am trying to connect a switch that has multiple servers connected to it to a router. The switch that I

How Fast Is Fiber Optic Cable | Verizon Business

Case Studies related to "how fast is fiber optic cable" Fast connectivity at remote jobsites with wireless internet Learn how LTE Business Internet helps Appalachian Pipeline Contractors connect their

How to Convert Multimode to Single-mode Fiber or vice versa?

Converting multimode to single-mode fiber solves the MMF transmission restrictions, boosting the fiber link up to 140km. Fiber to fiber media converter, WDM transponder, and mode

How Are Network Switch Connect To Fiber

Learn how network switches connect to fiber optics for fast and reliable data transmission. Understand the benefits and considerations of this

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Can You Use Fiber Optic Cable with RJ45? | Fiber vs

RJ45 and fiber optic cables transmit data differently—electrical vs optical. Learn why they are not directly compatible, how to connect Ethernet to fiber.

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

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