

No response when connecting a USB-to-serial adapter to a Huawei switch



Overview

USB to COM Port on Windows 10/11: Install, Find, and TroubleshootA USB-to-COM adapter translates USB data into a serial connection and makes Windows expose.

Key Takeaways

No response from a USB-to-serial adapter often results from driver issues, incorrect wiring, or mismatched serial settings. Verify Adapter Functionality

First, ensure the USB-to-serial adapter itself is working. Perform a loopback test by connecting the TX (transmit) and RX (receive) pins on the adapter and sending data through a terminal program. If the data is echoed back, the adapter is functioning correctly . If not, the adapter may be faulty or require a driver update.

Check Drivers

USB-to-serial adapters rely on specific drivers for the chipset (commonly Prolific or FTDI). Ensure the correct driver is installed for your operating system. On Windows, check Device Manager for the assigned COM port and any warning symbols. Update or reinstall the driver if necessary . On Linux, verify the device appears under `/dev/ttyUSB0` or similar, and adjust permissions if needed.

Verify Wiring and Pinout



Huawei switches typically use a standard RS-232 console port. Ensure the adapter's TX pin connects to the switch's RX pin, RX to TX, and GND to GND. Incorrect wiring or reversed lines can prevent communication . Use a voltmeter to confirm voltage levels if the pins are not labeled.

Configure Terminal Settings

Set your terminal program (e.g., PuTTY, Tera Term, or minicom) to match the switch's console settings. Common defaults for Huawei switches are 9600 baud, 8 data bits, no parity, 1 stop bit, and no flow control . Mismatched settings can result in no response or garbled output.

Additional Tips

- Try a different USB port or another adapter to rule out hardware issues.
- Test the adapter on another device to confirm it works.
- If using a Prolific adapter, ensure the driver is compatible with your OS version, especially after updates .
- Avoid using off-brand adapters with unverified chipsets, as they may be unreliable. By systematically checking adapter functionality, drivers, wiring, and terminal settings, you can identify the cause of the no-response issue and establish a successful connection to the Huawei switch.

Article Content

Checking Serial Port Terminal Software Settings and Driver Installation

If you use a serial-to-USB cable, you must check whether the driver is correctly installed in the Server Manager. If there is a yellow

Finding the Right USB-to-RJ45 Console Cable for Your Huawei Switch ...

Using a standard USB RS232 cable for a huawei switch console port depends on having the correct FTDI chipset and accurate pin

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Troubleshooting: This video shows how to fix HUAWEI phone-to-PC connection issues. It covers: replacing the cable, enabling

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Logging In to a Device Through the Console Port

If a maintenance terminal (PC) does not have a DB9 serial port, purchase a USB-to-DB9 cable that has a DB9 male connector with

Cisco Console Cable,USB Console Cable with FTDI Chip,USB to RJ45 Serial ...

Note: It's console cable USB 2.0 to RJ45 NOT USB to Ethernet cable. ☐☐Apply to Laptop and console connect: USB to RJ45 serial

Configuring Console Port Login on a Switch (V200)

If you use a laptop or a PC without a serial port, prepare a USB-to-serial cable. Install the driver stored on the CD-ROM delivered

Failure to connect the TC with Cisco device through the serial port

When customer try to use the Huawei TC to configure the Cisco switch by using the convertor (USB to Serial)cable. the VM couldn't

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