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UGREEN 50773

UGREEN USB 2.0 to RJ45 RS232 FTDI Console Cable User Manual

Model: 50773

Introduction

This manual provides instructions for the UGREEN USB 2.0 to RJ45 RS232 FTDI Console Cable, Model 50773. This cable is designed to facilitate direct connection between a computer's USB port and the console port of various network devices, eliminating the need for traditional RS232 serial port adapters.



Figure 1: UGREEN USB 2.0 to RJ45 RS232 FTDI Console Cable. This image displays the cable with its USB-A connector on one end and the RJ45 connector on the other, featuring the UGREEN branding on the USB housing.

Key Features

- **Direct USB to RJ45 Console Connection:** Replaces traditional RS232 (DB-25/DB-9) serial port adapter cables.
- **Integrated FTDI Chip:** Ensures stable data transfer and broad compatibility.
- **ESD Protection:** Built-in electrostatic discharge guard circuit (up to 4KV) for device safety.
- **Wide Operating System Compatibility:** Supports Windows (32-bit and 64-bit, including Windows 8/10 with plug-and-play functionality), Mac OS, and Linux.
- **Broad Device Application:** Compatible with LAN controllers, routers, switches, and firewalls from brands like Cisco, Ubiquiti, Juniper, Fortigate, Mikrotik, Huawei, and HP ProCurve.
- **Flat Cable Design:** Space-saving and helps prevent tangles.
- **Nickel-Plated Connectors:** Anti-oxidation properties for reliable signal transmission.

- **Secure RJ45 Connection:** Features an 8P8C RJ45 crystal head with a retention clip.

Setup Instructions

1. **Driver Installation:**
    - For Windows 8, Windows 10, and Mac OS, the cable is typically plug-and-play, requiring no manual driver installation due to Microsoft (HCL) certification.
    - For other operating systems (e.g., older Windows versions, specific Linux distributions), drivers may be required. Please visit the official UGREEN website or FTDI website to download the appropriate drivers for the FTDI232RL chip.
2. **Connect to Computer:** Insert the USB-A connector of the console cable into an available USB 2.0 port on your computer (laptop or desktop).
3. **Connect to Network Device:** Insert the RJ45 connector of the console cable into the console port of your network device (e.g., router, switch, firewall). Ensure the connection is secure.



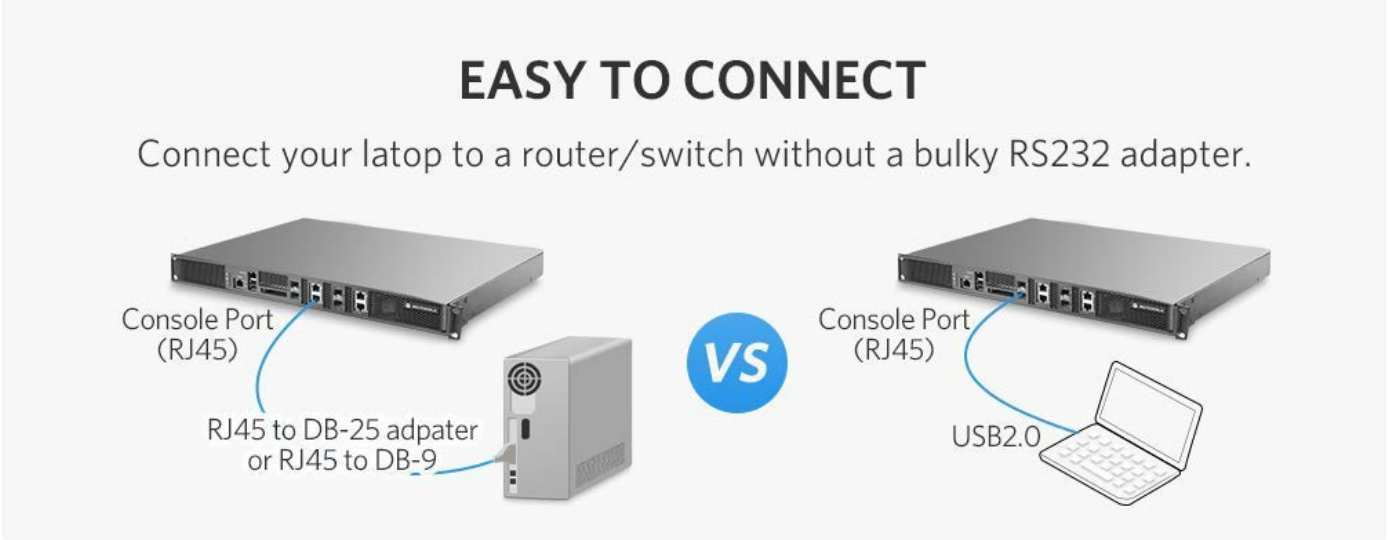


Figure 2: Simplified connection diagram. This image illustrates how to connect a laptop directly to a network device's console port using the UGREEN USB to RJ45 cable, contrasting it with the need for a bulky RS232 adapter.



Figure 3: Diagram showing compatible input and output devices. Output devices include Switch/Server, Wireless LAN Controller, and Router. Input devices include Laptop and Desktop computers.

Operating Instructions

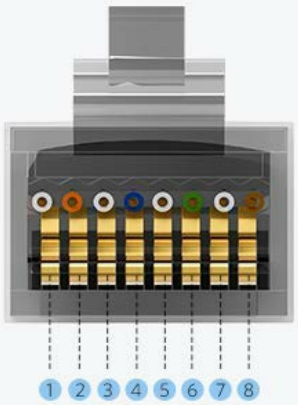
Once the cable is physically connected and drivers are installed (if necessary), you can use a terminal emulation program on your computer to access the console interface of the network device.

1. **Identify COM Port:** Open your computer's Device Manager (Windows) or check system information (Mac/Linux) to identify the assigned COM port for the FTDI USB Serial Port.
2. **Launch Terminal Emulator:** Open your preferred terminal emulation software (e.g., PuTTY, Tera Term, SecureCRT for Windows; minicom for Linux; Screen for Mac OS).
3. **Configure Serial Connection:**

- Select "Serial" or "COM" as the connection type.
- Enter the identified COM port.
- Configure the serial port settings to match the network device's console port requirements. Common settings include:
  - **Baud Rate:** 9600 or 115200 (refer to your device's documentation)
  - **Data Bits:** 8
  - **Parity:** None
  - **Stop Bits:** 1
  - **Flow Control:** None

4. **Establish Connection:** Click "Open" or "Connect" in your terminal software to establish the console session. You should now be able to interact with your network device's command-line interface.

RJ45 Pinout Information: The cable uses a standard RJ45 DTE pinout. Refer to the table below for pin definitions, which may be useful for advanced troubleshooting or compatibility checks.



RJ45 CONSOLE PORT

NOTE: Please confirm the pin definition of the product before purchasing.

PIN	NAME	DESCRIPTION	COLOR
1	CTS	Clear To Send	White
2	DSR	Data Device Ready	Orange
3	RXD	Receive Data	White
4	GND	Ground	Blue
5	DCD	Data Carrier Detection	White
6	TXD	Data Transmission	Green
7	DTR	Data Terminal Ready	White
8	RTS	Request To Send	Brown

Figure 4: RJ45 Console Port Pinout. This diagram shows the pin assignments for the RJ45 connector, including pin number, name (e.g., CTS, DSR, RXD), description, and wire color, as depicted in the product image.

RJ45 DTE Pinout Configuration (as per product image)

PIN	NAME	DESCRIPTION	COLOR
1	CTS	Clear To Send	White
2	DSR	Data Device Ready	Orange
3	RXD	Receive Data	White
4	GND	Ground	Blue
5	DCD	Data Carrier Detection	White
6	TXD	Data Transmission	Green
7	DTR	Data Terminal Ready	White
8	RTS	Request To Send	Brown

Important Note: *The product description also lists a pinout as RTS(1), DTR(2), TXD (3), GND(4), GND(5), RXD (6), DSR(7), CTS(8). Console port pin assignments can vary significantly between network device manufacturers (e.g., Cisco, Juniper, HP). Always consult the specific documentation for your network device to confirm the correct console port pinout and serial settings before attempting a connection.*

Maintenance

- **Storage:** Store the cable in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** Use a soft, dry cloth to clean the cable and connectors. Avoid using harsh chemicals or abrasive materials.
- **Handling:** Avoid bending the cable sharply or applying excessive force to the connectors. The flat cable design helps prevent tangles, but proper coiling is recommended for storage.
- **Inspection:** Periodically inspect the cable for any signs of damage, such as frayed insulation or bent connector pins. Discontinue use if damage is observed.



Figure 5: Key physical features of the cable. This image highlights the space-saving flat cable design and the nickel-plated USB connector, emphasizing durability and signal integrity.

Troubleshooting

Problem: Cable not recognized by computer.

- **Check USB Port:** Try connecting the cable to a different USB port on your computer.
- **Driver Installation:** Ensure the correct FTDI drivers are installed. For Windows 8/10 and Mac OS, drivers should install automatically. If not, manually download from the UGREEN or FTDI website.
- **Restart Computer:** A system restart can sometimes resolve recognition issues.

Problem: Cannot establish a console connection.

- **Verify COM Port:** Confirm the correct COM port is selected in your terminal emulation software.
- **Check Serial Settings:** Ensure baud rate, data bits, parity, stop bits, and flow control settings in your terminal software match the network device's console port requirements. These are critical for a successful connection.

- **Secure Connections:** Ensure both the USB and RJ45 connectors are firmly seated.
- **Device Power:** Confirm the network device is powered on and functioning correctly.
- **Terminal Software:** Try a different terminal emulation program if issues persist with your current one.

Problem: Intermittent connection or data corruption.

- **Cable Integrity:** Inspect the cable for any physical damage.
- **ESD Protection:** The cable has built-in ESD protection, but ensure you are working in an environment free from excessive static discharge.
- **USB Port Stability:** Try a different USB port, especially if using a USB hub.

Specifications

Feature	Detail
Model Number	50773
Brand	UGREEN
Input Interface	USB 2.0 (Type-A)
Output Interface	RJ45 (RS232 Console)
Chip Model	FTDI232RL
Baud Rate	75 - 115200 bit/s
Transfer Rate	1 Mbps
Cable Length	150 cm (approximately 5 feet)
Color	Black
Operating System Compatibility	Windows (32/64-bit, including 8/10 plug-and-play), Mac OS, Linux
ESD Protection	Up to 4KV
Item Weight	20 g
Product Dimensions	2 x 1 x 150 cm



Figure 6: Internal view of the USB connector housing, revealing the integrated FTDI-FT232RL chip. This chip is crucial for stable performance and compatibility across various operating systems.



Figure 7: Visual representation of universal compatibility with various operating systems, including Windows Vista, Mac OS, Windows 7, Linux, Windows 10, Windows XP, Windows 8.1, and Windows 8.

Warranty Information

UGREEN products typically come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official UGREEN website. Keep your purchase receipt as proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or general inquiries regarding your UGREEN USB 2.0 to RJ45 RS232 FTDI Console Cable, please contact UGREEN customer support through the following channels:

- **Official Website:** Visit www.ugreen.com for product information, FAQs, and support contact details.

- **Email Support:** Refer to your product packaging or the UGREEN website for the most current support email address.
- **Phone Support:** Contact details for phone support may be available on the UGREEN website for your region.

For customers in India, you may contact Nikita Distributors, the packer and importer, at care@nikitadistributors.com or by phone at 18002668571.

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