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UGREEN 20210

UGREEN 3ft USB to Serial Adapter User Manual

Model: 20210

Introduction

The UGREEN 3ft USB to Serial Adapter is designed to connect serial devices to your computer via a USB port. This adapter facilitates communication with various RS232 serial devices, including but not limited to serial programmers, PLC controllers, cash registers, printers, POS systems, and scanners. It features a PL2303 chipset for stable and efficient data transfer, and its durable construction ensures long-lasting performance.



Figure 1: UGREEN 3ft USB to Serial Adapter, showing the USB-A connector and the DB9 male serial connector.

Key Features

- **Easy to Use:** Connects serial devices to computers via USB, suitable for various RS232 serial devices.

- **Universal Compatibility:** Compatible with Windows 11/10/8/7/XP/Vista, macOS, and Linux. Driver-free for Windows 8 and above.
- **Built-Last:** Features gold-plated interface connectors and a flexible PVC jacket for durability and tangle prevention.
- **High Speed Transmission:** Supports transmission rates up to 256kbps for quick data transfer.
- **Stable Signal Transmission:** Equipped with a PL2303 professional chip and multiple shielding layers to ensure stable signal and data protection.

Package Contents

The package includes the following items:

- 1 x UGREEN USB 2.0 to RS232 DB9 Serial Cable (3ft)
- 1 x Driver Installation CD (for older OS versions)

Setup and Installation

Follow these steps to set up your UGREEN USB to Serial Adapter:

1. **Identify Ports:** Locate an available USB-A port on your computer and the DB9 female serial port on your target device.



Figure 2: The DB9 male connector of the adapter is designed to connect to a DB9 female port on your serial device.

2. **Connect the Adapter:** Plug the USB-A end of the adapter into your computer's USB port. Connect the DB9 male end of the adapter to the DB9 female serial port on your device. Ensure the screws on the DB9 connector are tightened to secure the connection.
3. **Driver Installation:**

- **Windows 8 and above (Windows 10, 11):**The adapter is typically driver-free and should be recognized automatically by your operating system.
- **Windows 7/XP, macOS, Linux:** Driver installation is required.
  - Insert the included driver CD into your computer's CD/DVD drive and follow the on-screen instructions to install the drivers.
  - Alternatively, you can download the latest drivers from the official UGREEN website. Refer to the product page or support section for download links.



Figure 3: The adapter supports a wide range of operating systems, including Windows (11, 10, 8, 7, XP, Vista), Mac OS, and Linux.

4. **Verify Installation:** After installation, open your computer's Device Manager (Windows) or System Information (macOS/Linux) to confirm that the adapter is recognized as a COM port. Note the assigned COM port number for use with your serial communication software.

Operating Instructions

Once the adapter is installed, you can use it to communicate with your serial devices:

1. **Software Configuration:** Open the serial communication software (e.g., PuTTY, Tera Term, HyperTerminal, or device-specific software) that you use for your serial device.
2. **Select COM Port:** In your software, select the COM port number that was assigned to the UGREEN USB to Serial Adapter (as identified in Device Manager).
3. **Configure Serial Settings:** Set the serial communication parameters (baud rate, data bits, parity, stop bits, flow control) to match the requirements of your serial device. Common baud rates include 9600, 19200, 38400, 57600, and 115200 bps. The adapter supports up to 256kbps.



Figure 4: The adapter offers wide compatibility with various devices, including desktop PCs, laptops, PLC controllers, network switches, modems, and printers.

4. **Establish Communication:** Initiate communication through your software. The adapter will facilitate the data exchange between your computer and the serial device.
5. **Pin Assignment Reference:** For advanced users or troubleshooting, refer to the standard DB9 male pin assignments.



Figure 5: DB9 Male Pin Assignment: 1-DCD, 2-RXD, 3-TXD, 4-DTR, 5-GND, 6-DSR, 7-RTS, 8-CTS, 9-RI.

Maintenance and Care

To ensure the longevity and optimal performance of your UGREEN USB to Serial Adapter, follow these maintenance guidelines:

- **Storage:** Store the adapter 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 liquid cleaners or solvents.
- **Handling:** Do not bend or crimp the cable excessively. Avoid pulling the cable by the cord; always grasp the connector when plugging or unplugging.
- **Connection Security:** Ensure the DB9 screws are finger-tightened to prevent accidental disconnections, but do not overtighten.

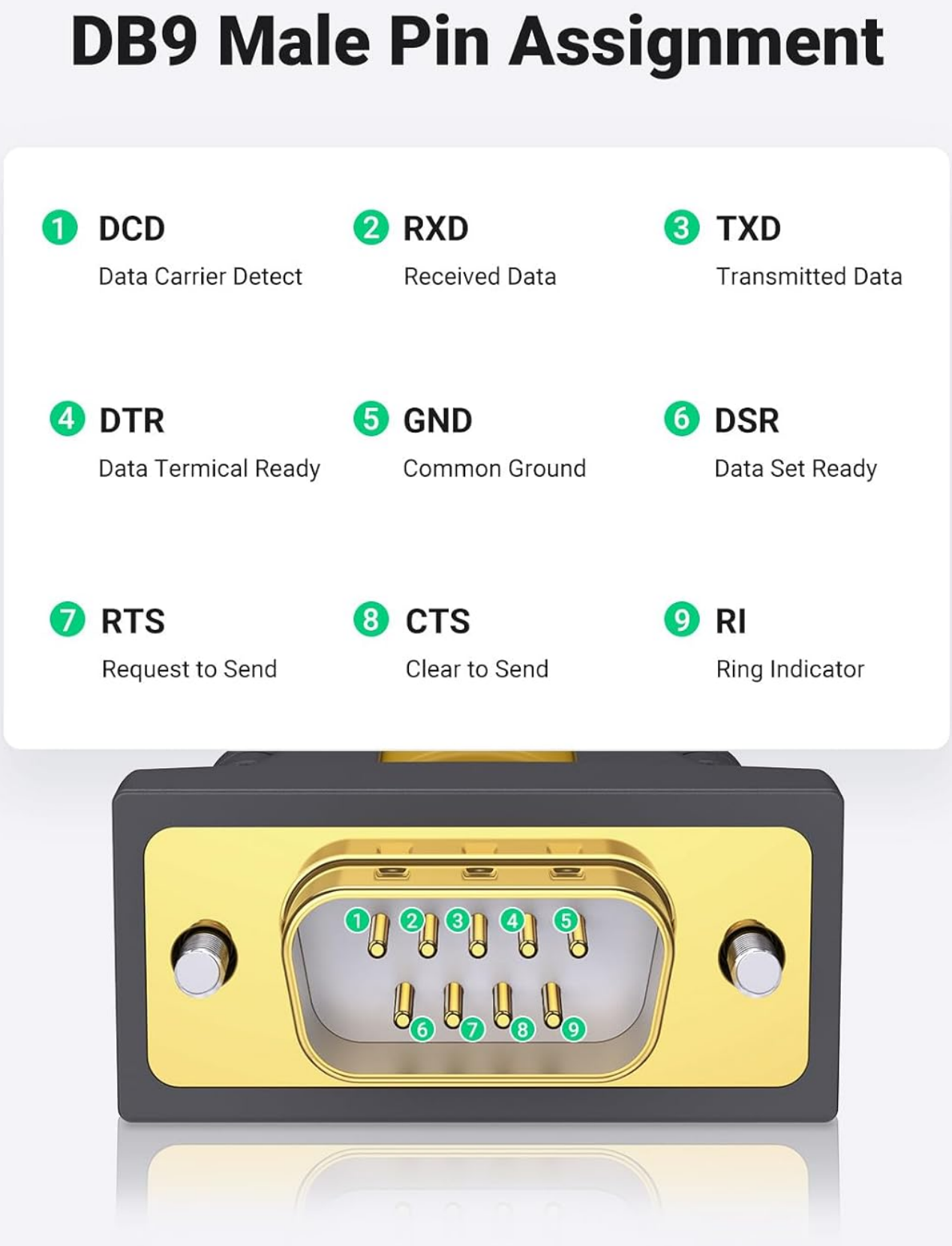


Figure 6: The cable features a multi-layered construction for durability and signal integrity, including a PVC jacket, metal shield, aluminum foil shield, and various internal wires.

Troubleshooting

If you encounter issues with your UGREEN USB to Serial Adapter, consider the following troubleshooting steps:

- **No Device Recognition:**
  - Ensure the adapter is firmly plugged into both the USB port and the serial device.
  - Verify that the correct drivers are installed for your operating system. For Windows 7/XP, macOS, and Linux, manual driver installation is often required. Check Device Manager for any yellow exclamation marks indicating driver issues.
  - Try a different USB port on your computer.
- **Communication Errors:**
  - Double-check that the serial communication parameters (baud rate, data bits, parity, stop bits, flow control) in your software exactly match those of your serial device.
  - Confirm that you have selected the correct COM port in your serial communication software.
  - Ensure the serial device is powered on and functioning correctly.
- **Intermittent Connection:**
  - Check for loose connections at both the USB and DB9 ends.
  - Avoid placing the cable near sources of strong electromagnetic interference.
- **Driver Issues on Windows 10/11:** While generally plug-and-play, some users might experience issues. If so, try manually updating the driver via Device Manager: Right-click the device, select "Update driver," then "Search automatically for updated driver software." If that fails, try "Browse my computer for driver software" and point to the driver CD or downloaded driver folder.

Technical Specifications

Attribute	Value
Brand	UGREEN
Model Number	20210
Product Dimensions	6.22 x 0.98 x 8.74 inches; 3.53 ounces
Connector Type	DB9 Male (RS232) to USB-A
Compatible Devices	Scanner, PC, Printer, PLC Controller, Cash Registers, POS, Modems, Network Switches
Color	Black
Chipset	PL2303
Max Transmission Rate	256kbps
Cable Length	3ft (0.91m)

Warranty and Support

UGREEN products come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty information provided with your purchase or visit the official UGREEN website.
For further assistance, technical support, or driver downloads, please visit the UGREEN support page or refer to the official product guide:

Download Installation Manual (PDF)

You can also visit the official UGREEN store on Amazon for more product information and support resources:UGREEN Store

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