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**UGREEN 20210**

# UGREEN USB to Serial Adapter (Model 20210) User Manual

Your guide to setup, operation, and troubleshooting

## 1. Introduction

The UGREEN USB to Serial Adapter (Model 20210) provides a reliable solution for connecting RS232 serial devices to your computer's USB port. This adapter is designed for broad compatibility and stable data transmission, making it suitable for various industrial and personal applications.




Image 1.1: UGREEN USB to Serial Adapter featuring gold-plated connectors for enhanced durability and signal integrity.

This manual will guide you through the installation, operation, and maintenance of your UGREEN USB to Serial Adapter.

## 2. Package Contents

- 1 x UGREEN USB 2.0 to RS232 DB9 Serial Cable (Model 20210)
- 1 x Driver Installation CD (for older operating systems)

## 3. Product Features

- **PL2303 Chipset:** Ensures stable and efficient data transfer.
- **High-Speed Transmission:** Supports data rates up to 256kbps.
- **Durable Construction:** Gold-plated connectors and flexible PVC jacket for longevity and tangle prevention.
- **Multi-Featured:** Includes RS232 Serial Port, Auto Wake-up, Power Management, and Automatic Handshake capabilities.




Image 3.1: The adapter features a powerful PL2303 chip, crucial for stable and secure data transfer.

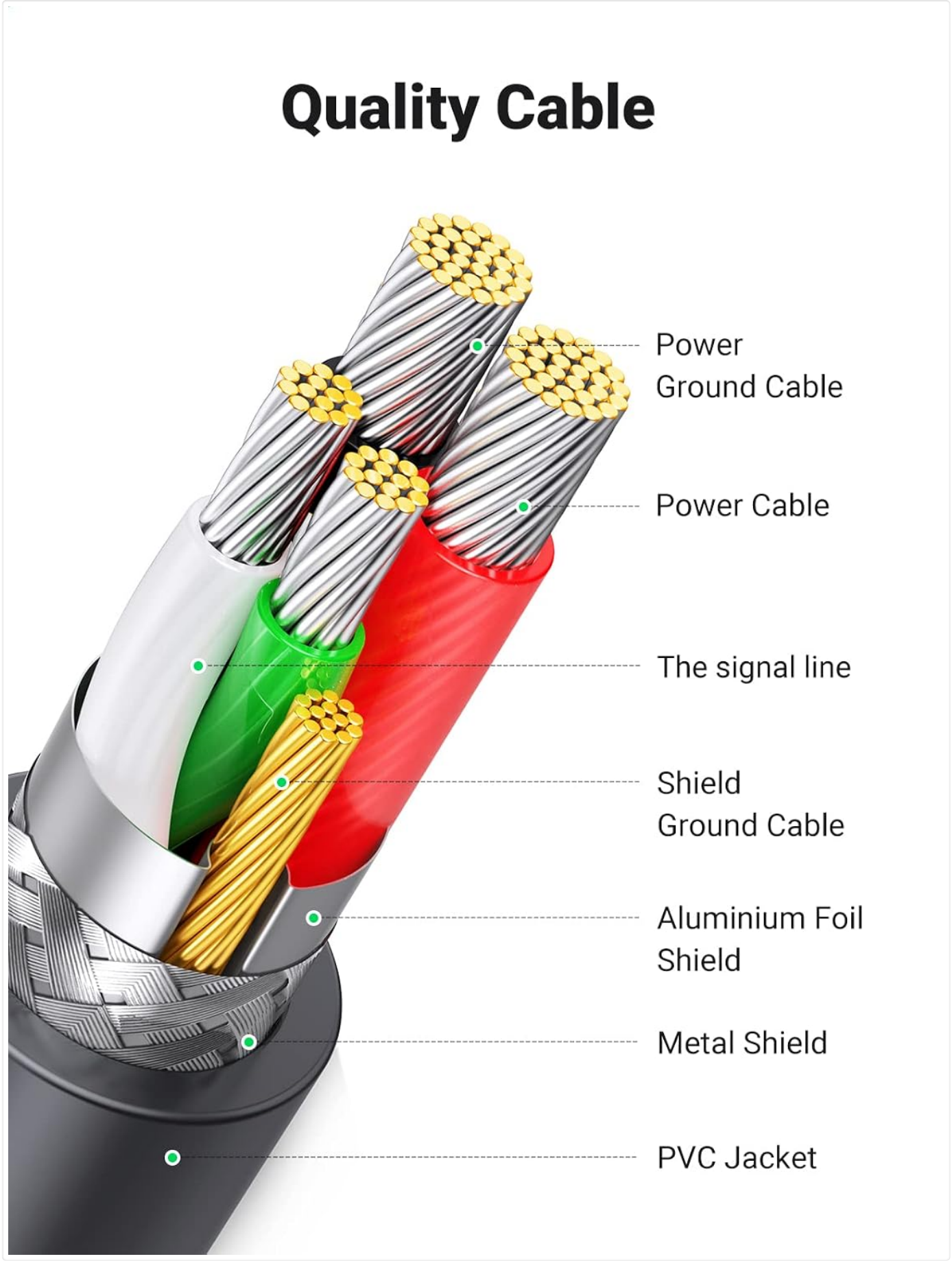



Image 3.2: Detailed view of the cable's internal structure, highlighting multiple shielding layers and a PVC jacket for durability and signal integrity.

## 4. System Requirements

The UGREEN USB to Serial Adapter is compatible with a wide range of operating systems:

- Windows 11 / 10 / 8.1 / 8 / 7 / XP / Vista
- macOS
- Linux

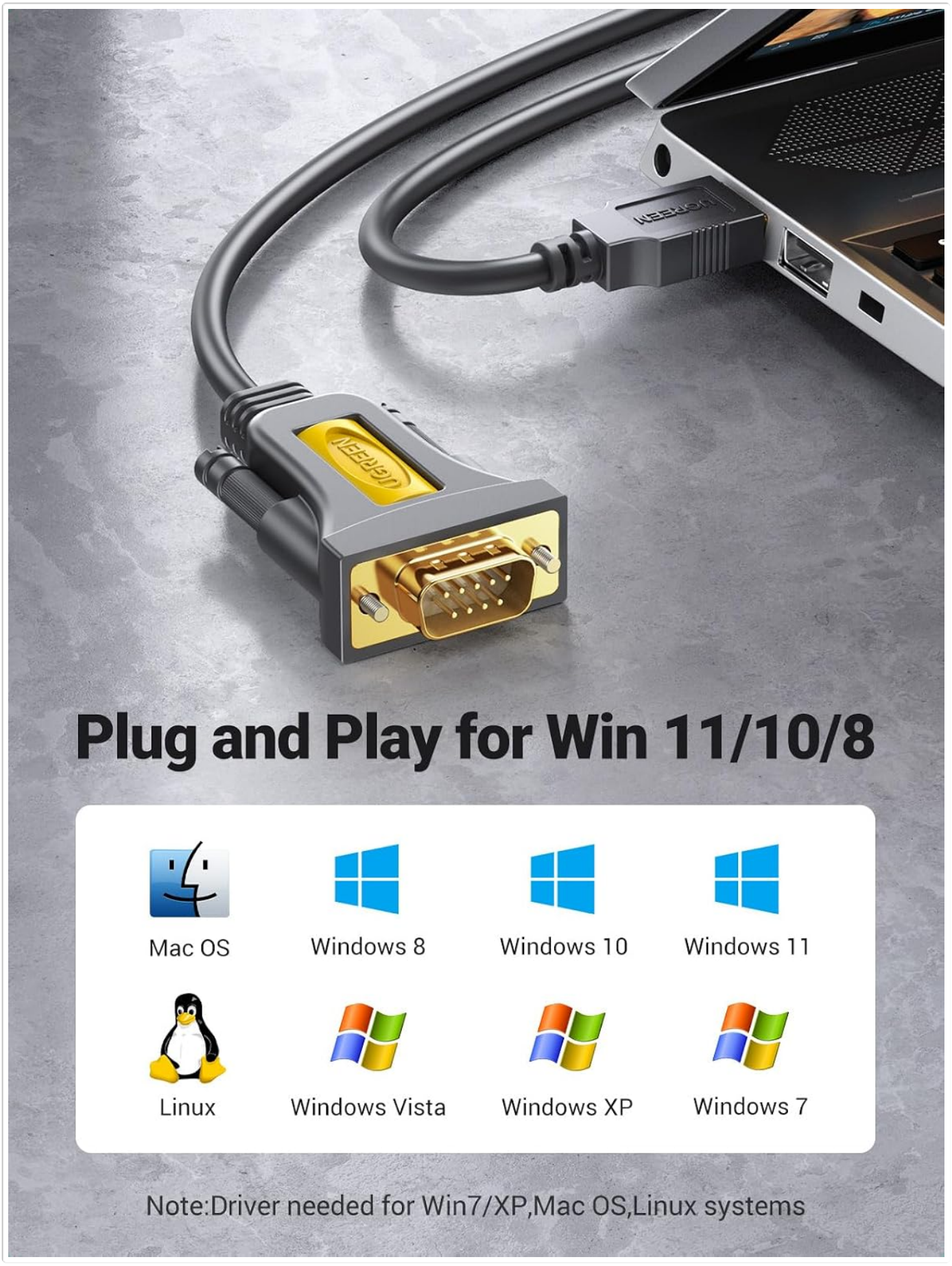


Image 4.1: Compatibility overview, showing plug-and-play support for Windows 8 and above, with driver requirements for other systems.

## 5. Setup and Driver Installation

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

1. **Connect the Adapter:** Plug the USB-A end of the adapter into an available USB port on your computer.
2. **Driver Installation:**
    - **For Windows 8 / 8.1 / 10 / 11:**The adapter is typically plug-and-play. Your operating system should automatically detect and install the necessary drivers.
    - **For Windows 7 / XP / Vista, macOS, and Linux:**Driver installation is required. Insert the provided driver CD into your computer's optical drive and follow the on-screen instructions. If you do not have an optical drive, drivers can be downloaded from the official UGREEN support website.
3. **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 device software.

## 6. Connecting Your Devices

The UGREEN USB to Serial Adapter allows you to connect various RS232 serial devices to your computer.

1. **Identify Your Device's Serial Port:** Ensure your device has a DB9 female serial port. This adapter features a DB9 male connector.
2. **Connect the Serial Device:** Plug the DB9 male connector of the UGREEN adapter into the DB9 female port of your serial device (e.g., PLC controller, cash register, printer, POS system, scanner, modem). Secure the connection using the screws on the adapter if available.
3. **Configure Software:** Open the software for your serial device. In the software settings, select the COM port number identified during driver installation and configure other serial communication parameters (e.g., baud rate, data bits, parity, stop bits, flow control) to match your device's requirements.




Image 6.1: The adapter supports a wide range of devices including desktop PCs, laptops, PLC controllers, network switches, modems, and printers.




Image 6.2: The DB9 male connector is designed to correspond with DB9 female devices, ensuring a secure connection.




Image 6.3: Example of the adapter being used for PLC programming, providing stable transmission without data corruption.

## 7. Troubleshooting

- **Adapter Not Recognized:**
  - Ensure the USB cable is securely connected to both the computer and the adapter.
  - Try a different USB port on your computer.
  - Verify that the drivers are correctly installed. For Windows 7/XP, macOS, and Linux, manual driver installation is necessary. Refer to Section 5.
- **Communication Errors:**
  - Check that the COM port number selected in your device's software matches the one assigned to the adapter in Device Manager.
  - Confirm that the serial communication parameters (baud rate, data bits, parity, stop bits, flow control) in your software match those of your serial device.
  - Ensure the serial device is powered on and functioning correctly.
- **Windows 11 Driver Issues (PL2303TA):** Some users may encounter a "PL2303TA DO NOT SUPPORT WINDOWS 11 OR LATER" message. While Prolific (chip manufacturer) may suggest newer chips, compatible drivers for Windows 11 can often be found online from reliable sources. Exercise caution when downloading third-party drivers.
- **Loose DB9 Connection:** If the plastic heads of the bolts on the DB9 connector become damaged, making it difficult to secure, consider using a small flathead screwdriver carefully or replacing the adapter if the connection becomes unreliable.

## 8. Specifications

| Feature | Detail |
| --- | --- |
| Model Number | 20210 |
| Chipset | PL2303 |

| | |
|---|---|
| Connector Type | USB-A Male to DB9 Male (RS232) |
| Cable Type | DB9, USB |
| Transmission Rate | Up to 256kbps |
| Cable Length | 3ft (1M) |
| Jacket Material | PVC |
| Product Dimensions | 6.22 x 0.98 x 8.74 inches; 3.53 ounces |
| Compatible Devices | Routers, modems, PCs, GPS, barcode scanners, cash registers, printers, POS systems, PDAs, mobile phones, ISDN terminal adapters |

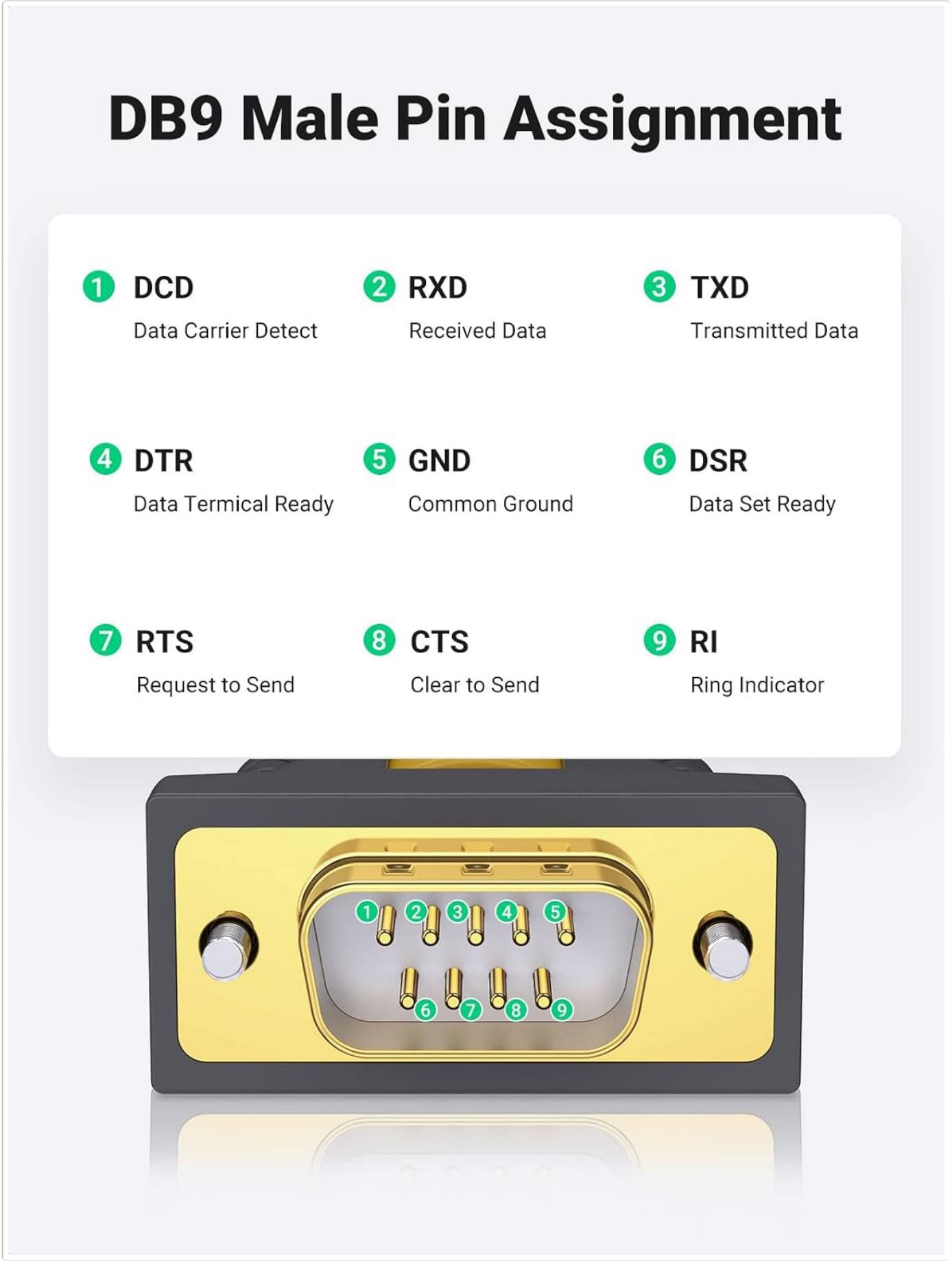



Image 8.1: DB9 Male Pin Assignment details, including DCD, RXD, TXD, DTR, GND, DSR, RTS, CTS, and RI.

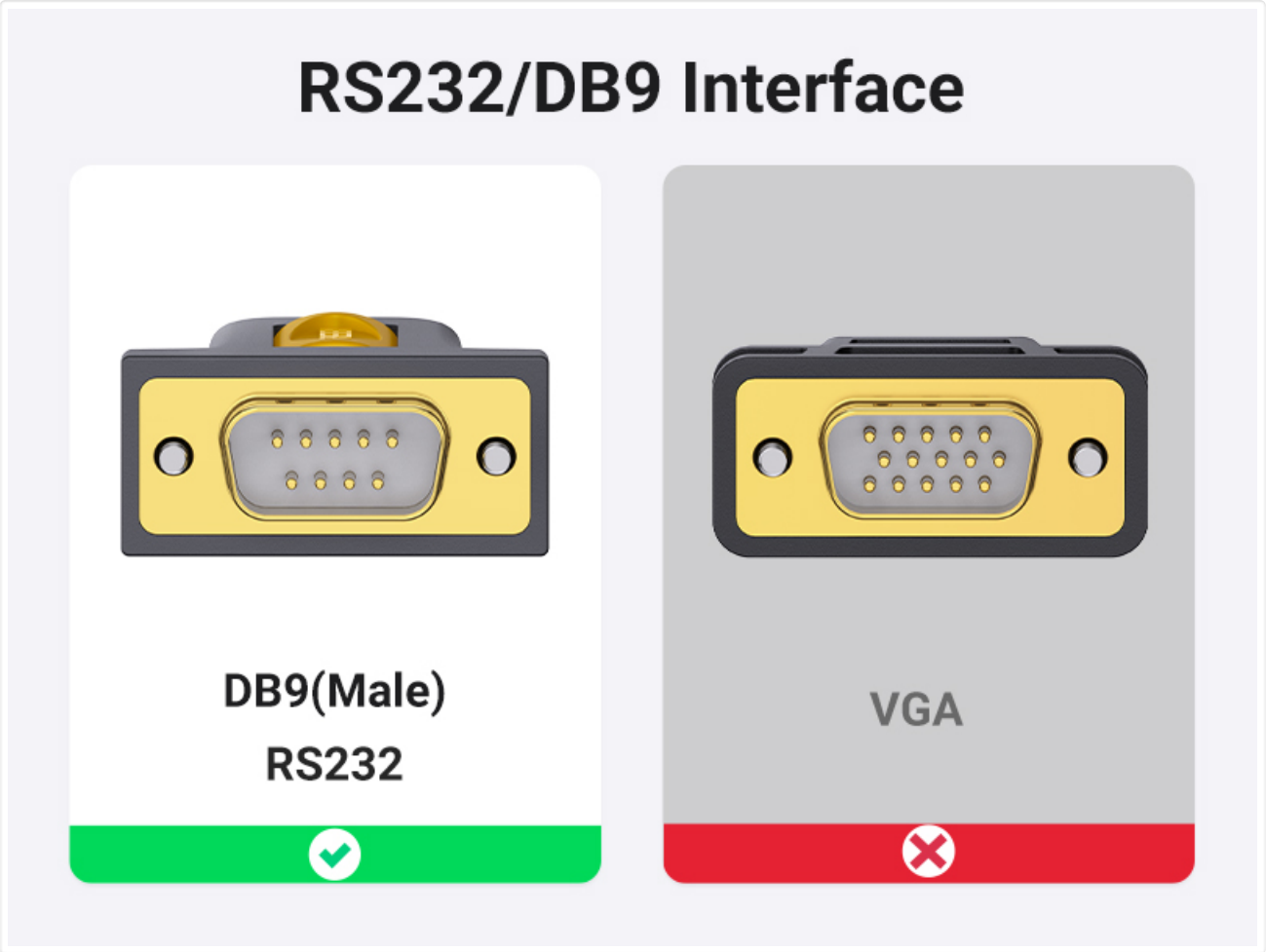



Image 8.2: Visual distinction between a DB9 (RS232) male connector and a VGA connector, clarifying correct port identification.

## 9. Care and Maintenance

- **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 adapter. Avoid using liquid cleaners or solvents.
- **Handling:** Avoid bending the cable sharply or applying excessive force to the connectors to prevent internal damage. The PVC jacket is designed to be flexible and prevent tangling.
- **Connector Protection:** The gold-plated connectors are designed for durability. Keep them free from dust and debris to ensure optimal signal transfer.

## 10. Support and Warranty

For technical support, driver updates, or warranty inquiries, please visit the official UGREEN website or contact UGREEN customer service. Refer to your purchase documentation for specific warranty terms and conditions.

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