

DTech DT-5011

DTECH USB to Serial Adapter Cable (Model DT-5011) Instruction Manual

Model: DT-5011 | Brand: DTech

1. INTRODUCTION

This manual provides detailed instructions for the DTECH USB to Serial Adapter Cable, Model DT-5011. This adapter facilitates the connection of RS-232 serial devices to computers lacking a native serial port, utilizing a USB 2.0 interface and an FTDI chipset for reliable data transmission. It is compatible with various operating systems, including Windows, Mac OS, and Linux.



Figure 1: DTECH USB to Serial Adapter Cable (Model DT-5011)

The adapter is designed to bridge the gap between modern computers and legacy serial devices, ensuring continued functionality for equipment such as PLCs, programming machines, barcode scanners, and other devices that rely on a 9-pin serial connection.

2. PRODUCT FEATURES

- **USB 2.0 to RS-232 DB9 Male Port:** Connects serial devices to a USB port.
- **FTDI Chipset:** Ensures stable and reliable data communication.
- **Broad Operating System Compatibility:** Supports Windows 10, 8.1, 8, 7, Mac OS 8 or higher, and Linux 2.4.0 and later.
- **Activity LED Indicators:** Built-in LEDs for power, transmit (TX), and receive (RX) data, aiding in connection status monitoring and troubleshooting.
- **Gold-Plated Interface:** Provides enhanced durability and signal integrity.

- **Cable Length:** 4 feet (approximately 1.2 meters) for flexible placement.
- **Baud Rate Support:** Wide range of baud rates from 70bps to 921600bps.



Figure 2: Built-in LED indicators for power and data flow.

The adapter is specifically designed for RS-232 serial communication and is **not** a VGA monitor cable. It features a D-sub 9-pin male connector for serial data transfer.

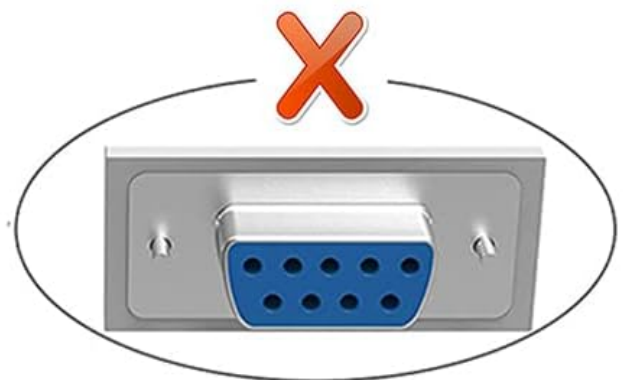


Before The Buying



9 Pin RS232 Male Plug

Yes
serial data cable
9 pin RS232 male port



9 Hole RS232 Female Socket

No
monitor video cable
9 pin RS232 female port
9 pin EGA/CGA/RGB port
15 pin VGA port

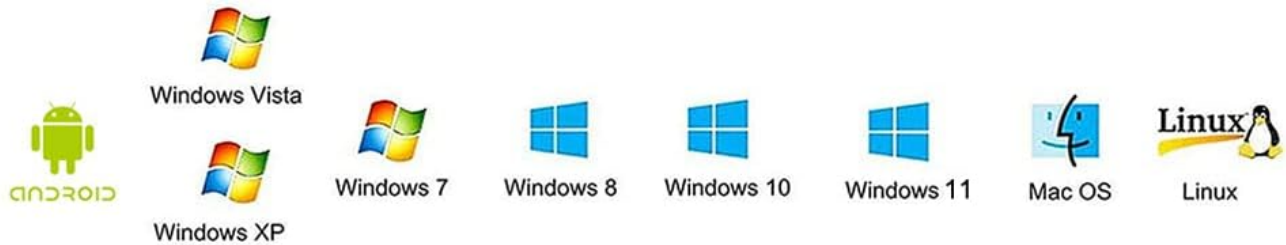
Figure 3: Visual distinction between the 9-pin RS232 Male Plug (compatible) and 9-hole RS232 Female Socket (incompatible).

3. SETUP AND INSTALLATION

3.1 Driver Installation

The DTECH USB to Serial Adapter requires specific drivers for proper functionality. A driver CD is included with the product. Alternatively, the latest drivers can be downloaded directly from the FTDI official website. It is recommended to install the drivers before connecting the adapter to your computer.

1. **Using the Driver CD:** Insert the included CD into your computer's optical drive and follow the on-screen instructions to install the FTDI VCP (Virtual COM Port) drivers.
2. **Downloading Drivers:** Visit the official FTDI website (<https://www.ftdichip.com/Drivers/VCP.htm>) to download the appropriate VCP drivers for your operating system (Windows, Mac OS, Linux). Follow the installation guide provided on the website.



Any installation or usage issues, please email us or you may download a driver and guide on FTDI official website
<https://www.ftdichip.com/Drivers/VCP.htm>



Figure 4: Supported operating systems for driver installation.

3.2 Physical Connection

1. Ensure drivers are installed as described in Section 3.1.
2. Connect the USB Type-A male end of the DTECH adapter cable to an available USB port on your computer.
3. Connect the DB9 male end of the DTECH adapter cable to the DB9 female port of your serial device. Secure the

connection using the thumbscrews on the DB9 connector if available.

4. Observe the LED indicators on the adapter. The power light should illuminate upon connection.

For Computer Connecting a 9 pin serial device

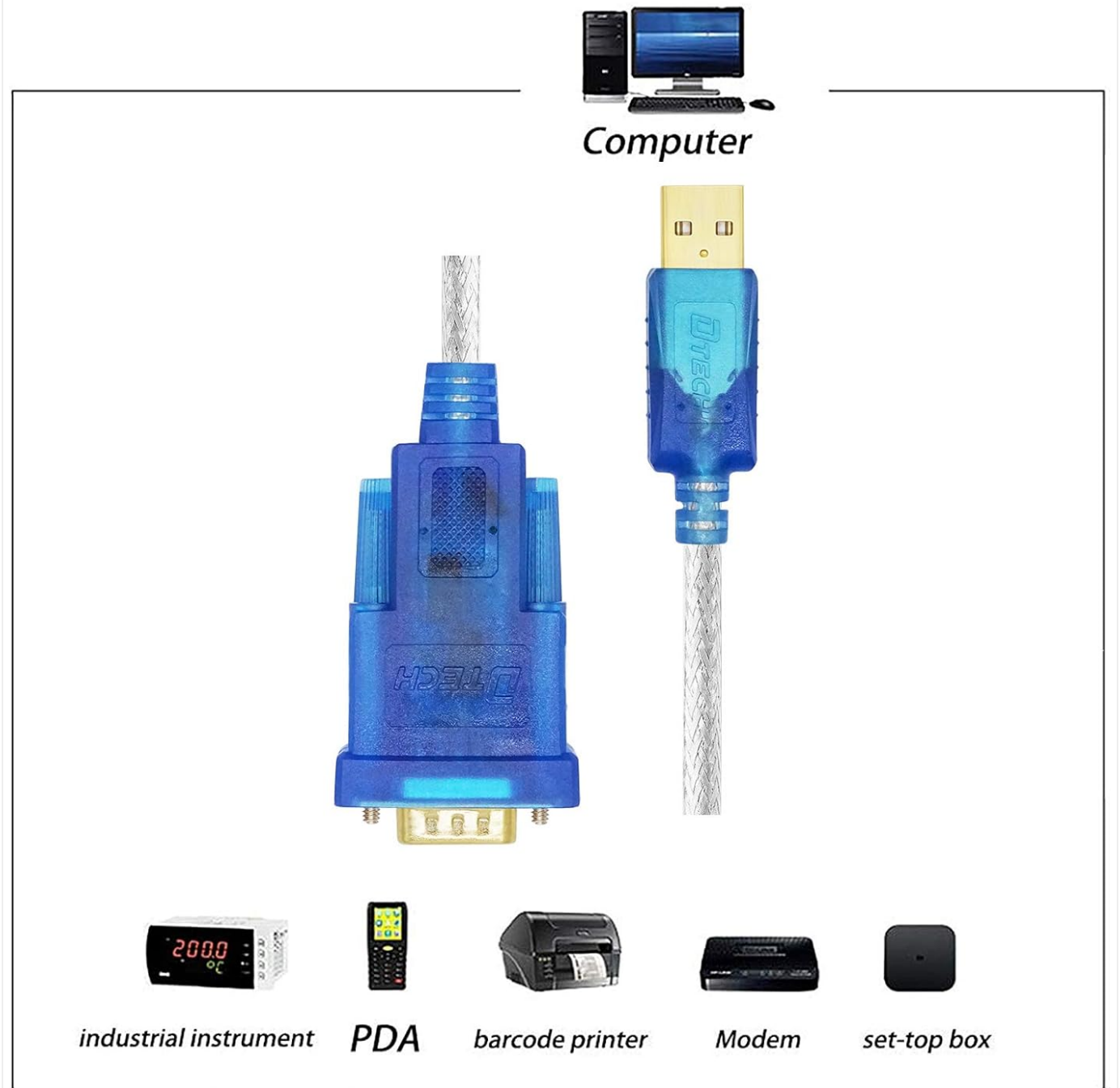


Figure 5: Examples of devices compatible with the DTECH USB to Serial Adapter.

4. OPERATION

Once the drivers are installed and the adapter is physically connected, your operating system should recognize it as a Virtual COM Port (VCP). You can then use serial communication software (e.g., PuTTY, Tera Term, HyperTerminal) to interact with your connected serial device.

- **Identify COM Port:** After installation, check your computer's Device Manager (Windows) or equivalent system information (Mac/Linux) to see if the adapter appears under "Ports (COM & LPT)" or similar. If not, try reinstalling the drivers or connecting to a different USB port.

- **Configure Serial Software:** Open your preferred serial communication software and configure it with the correct COM port number, baud rate, data bits, parity, and stop bits as required by your serial device. Refer to your serial device's documentation for these settings.
- **Monitor Data Flow:** The green LED (TX) will blink when data is being transmitted from your computer, and the yellow LED (RX) will blink when data is being received by your computer.

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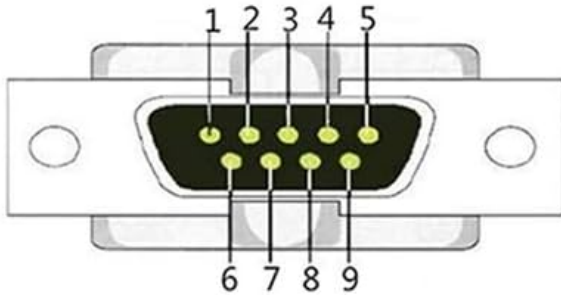
Video 1: An overview of the DTech USB Serial Adapter, demonstrating its features and connectivity. This video provides a visual guide to the product's functionality.

5. TROUBLESHOOTING

- **Adapter Not Recognized:**
Ensure the drivers are correctly installed. Check Device Manager (Windows) or system information (Mac/Linux) to see if the adapter appears under "Ports (COM & LPT)" or similar. If not, try reinstalling the drivers or connecting to a different USB port.
- **No Data Transmission/Reception:**
Verify that the COM port settings (baud rate, data bits, parity, stop bits) in your serial communication software match those of your serial device. Check the TX/RX LEDs on the adapter for activity. Ensure the serial device is powered on and functioning correctly.
- **Incorrect Cable Type:**
This adapter is for RS-232 serial communication (DB9 male). It is **not** a VGA adapter. Ensure you are connecting to a serial port and not a video port.
- **Windows 11 Compatibility:**
While the product description mentions Windows 10, 8, 7, Mac OS, and Linux, some users have reported issues with Windows 11 Enterprise. For Windows 11, ensure you download the absolute latest drivers directly from the FTDI website, as the included CD might not have the most current version.

6. SPECIFICATIONS

Model Number	DT-5011
Connector Type	USB Type-A Male to RS232 DB9 Male
Chipset	FTDI (FT232)
Cable Length	4 Feet (approx. 1.2 meters)
Baud Rate	70bps to 921600bps
Compatible Operating Systems	Windows 10, 8.1, 8, 7, Mac OS v8.6+, Linux 2.4.0+
Product Dimensions	8.5 x 1.9 x 4.9 inches (packaging)
Item Weight	0.32 ounces
Color	Blue
Manufacturer	Guangzhou DTECH Electronics Technology Co.,Ltd



Type	Pin-out	Abbr.	Data circuits	Function
DB9 Male Plug	1	DCD	I	Data Carrier Detect
	2	RXD	I	Received Data
	3	TXD	O	Transmitted Data
	4	DTR	O	Data Terminal Ready
	5	GND		Common Ground
	6	DSR	I	Data Set Ready
	7	RTS	O	Request To Send
	8	CTS	I	Clear To Send
	9	RI	I	Ring Indicator

Baud rate supported:

300
 600
 1200
 1800
 2400
 4800
 7200
 9600
 14400
 19200
 38400
 57600
 115200
 230400
 460800
 921600

Figure 6: DB9 Male Plug pinout diagram and supported baud rates.

7. WARRANTY AND SUPPORT

For any installation or usage issues, please refer to the FTDI official website for the latest drivers and usage guides. You may also contact DTech customer support for assistance.

- **FTDI Driver & Support:** <https://www.ftdichip.com/Drivers/VCP.htm>
- **Manufacturer:** Guangzhou DTECH Electronics Technology Co.,Ltd

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question