

Suapouen BT580

Suapouen BT580 RS232 Serial Port Bluetooth Adapter

User Manual

1. INTRODUCTION

The Suapouen BT580 is an RS232 Serial Port Bluetooth Adapter designed to convert traditional wired serial communication into a wireless Bluetooth connection. This device facilitates wireless serial communication between RS232-enabled equipment and various Bluetooth master devices, such as mobile phones, tablets, desktop computers, or notebook computers, utilizing Bluetooth Low Energy (BLE) technology.

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your BT580 adapter.

2. PACKAGE CONTENTS

Please verify that all items listed below are present in your package:

- 1 x Suapouen BT580 RS232 Bluetooth Adapter
- 1 x USB Cable (for charging)



Figure 2.1: The BT580 adapter shown with its included USB charging cable and an optional gender changer. The adapter is grey with 'IRXON' branding, featuring a DB9 connector on one end and a USB port on the side.

3. PRODUCT OVERVIEW

Familiarize yourself with the components and indicators of your BT580 adapter:

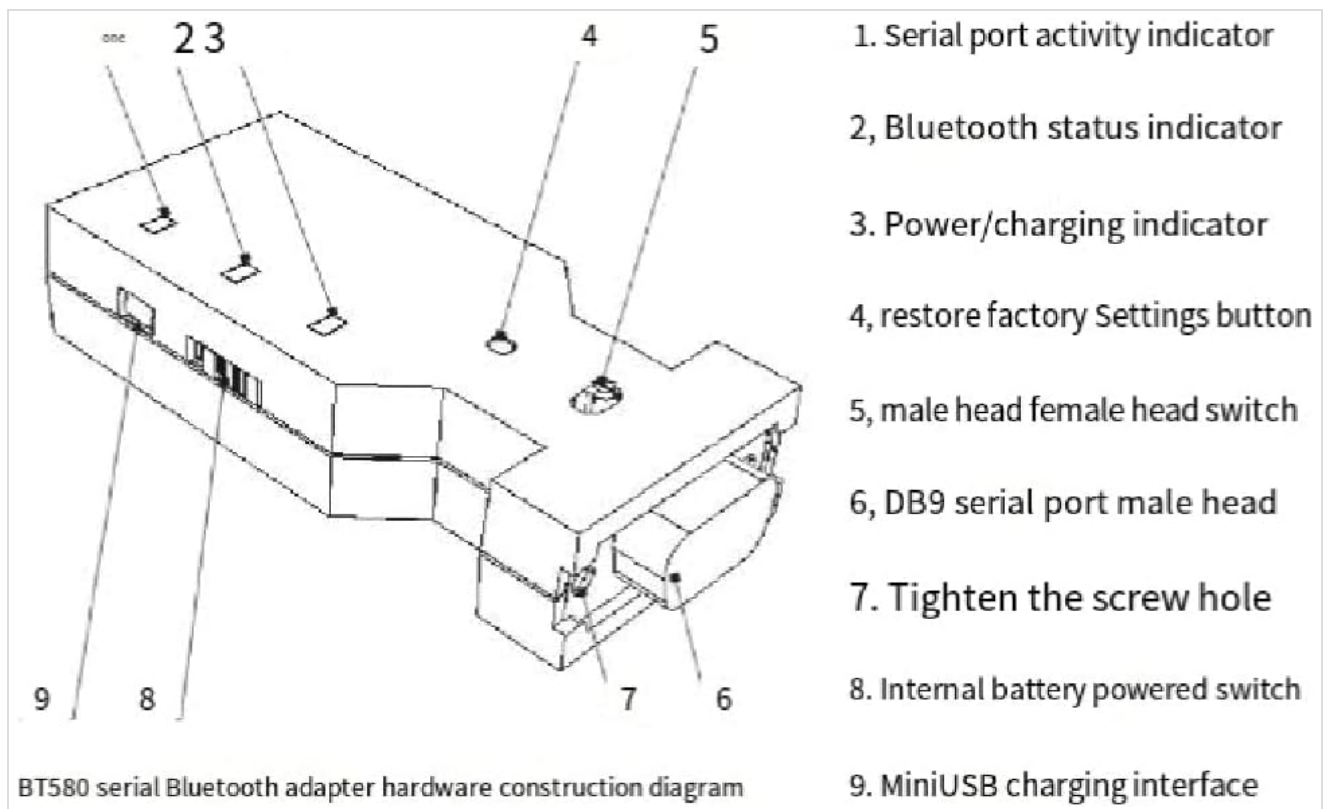


Figure 3.1: A detailed diagram illustrating the various components of the BT580 serial Bluetooth adapter. Key features include indicators for serial port activity, Bluetooth status, and power/charging, a restore factory settings button, a male/female head switch, a DB9 serial port, screw holes for secure connection, an internal battery powered switch, and a MiniUSB charging interface.

Component Identification:

1. **Serial Port Activity Indicator:** Lights up to indicate data transmission or reception via the serial port.
2. **Bluetooth Status Indicator:** Shows the current Bluetooth connection status (e.g., pairing mode, connected).
3. **Power/Charging Indicator:** Indicates power status and charging activity.
4. **Restore Factory Settings Button:** Press to reset the adapter to its default factory configuration.
5. **Male Head/Female Head Switch (M/F):** Toggles the gender of the DB9 serial port connector.
6. **DB9 Serial Port:** The primary interface for connecting to RS232 devices.
7. **Tighten Screw Hole:** Used to secure the adapter to the serial device.
8. **Internal Battery Powered Switch:** Controls the internal battery power.
9. **MiniUSB Charging Interface:** For charging the internal battery using the provided USB cable.

4. SETUP

Follow these steps to prepare your BT580 adapter for use:

1. **Charge the Adapter:** Connect the provided USB cable to the MiniUSB charging interface (9) on the adapter and to a standard USB power source (e.g., computer USB port, USB wall adapter). The Power/Charging Indicator (3) will show charging status. Ensure the adapter is fully charged before initial use.
2. **Determine DB9 Gender:** Identify whether your serial device requires a male or female DB9 connector. Use the Male Head/Female Head Switch (5) on the BT580 adapter to select the appropriate gender.
3. **Connect to Serial Device:** Connect the BT580 adapter's DB9 serial port (6) to the RS232 serial port of your target device. Secure the connection using the tighten screw holes (7) if available on your device.
4. **Power On:** If using the internal battery, ensure the Internal Battery Powered Switch (8) is in the 'ON' position. If connecting via USB, the device may power on automatically.

5. OPERATING INSTRUCTIONS

The BT580 adapter uses Bluetooth Low Energy (BLE) technology for wireless communication. Follow these steps to establish a connection:

1. **Enable Bluetooth on Master Device:** On your mobile phone, tablet, desktop, or laptop, ensure Bluetooth is enabled.
2. **Scan for Devices:** Open your device's Bluetooth settings and scan for available Bluetooth devices. The BT580 adapter should appear in the list.
3. **Pair with BT580:** Select the BT580 adapter from the list of discovered devices to initiate the pairing process. The Bluetooth Status Indicator (2) on the adapter will change to reflect the pairing status.
4. **Establish Serial Communication (BLE):** For BLE connections, your Bluetooth master device will need an application capable of monitoring and writing to Bluetooth characteristic values. This application will interact with the BT580 adapter to send and receive serial data wirelessly. Refer to the documentation of your specific BLE application for detailed instructions on how to configure it for serial communication with the BT580.
5. **Data Transmission:** Once connected and configured, data sent from your Bluetooth master device via the BLE application will be transmitted through the BT580 adapter's RS232 port to the connected serial device, and vice-versa. The Serial Port Activity Indicator (1) will flash during data exchange.

6. CONNECTION DIAGRAM

The following diagram illustrates the principle of Bluetooth wireless serial communication compared to traditional wired serial communication:

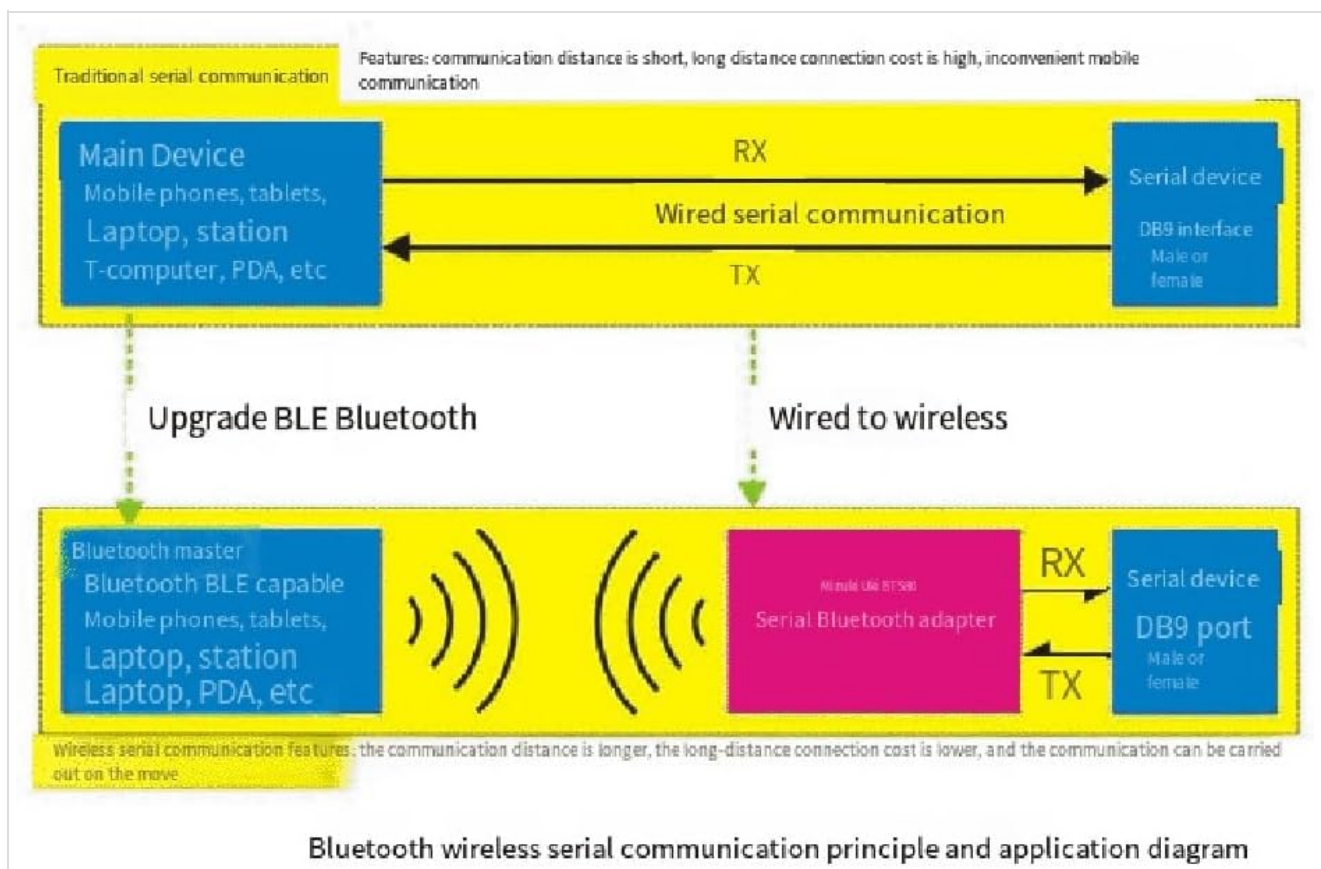


Figure 6.1: This diagram compares traditional wired serial communication with upgraded BLE Bluetooth wireless communication. The top section shows a direct wired connection between a main device (e.g., mobile phone, laptop) and a serial device via a DB9 interface. The bottom section illustrates how the BT580 serial Bluetooth adapter replaces the wired connection, allowing a Bluetooth BLE capable master device to communicate wirelessly with the serial device, offering longer communication distance and improved

7. MAINTENANCE

To ensure the longevity and optimal performance of your BT580 adapter, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the adapter. Avoid using liquid cleaners or solvents, as they may damage the device.
- **Storage:** Store the adapter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the adapter with care. Avoid dropping it or subjecting it to strong impacts.
- **Charging:** Only use the provided USB cable or a certified equivalent for charging. Do not overcharge the device.

8. TROUBLESHOOTING

If you encounter issues with your BT580 adapter, refer to the following troubleshooting tips:

Problem	Possible Cause	Solution
Adapter does not power on.	Low battery or power switch off.	Charge the adapter using the USB cable. Ensure the Internal Battery Powered Switch (8) is in the 'ON' position.
Cannot find BT580 in Bluetooth scan.	Adapter is not powered on or not in pairing mode.	Ensure the adapter is powered on. If previously paired, try resetting the adapter using the Restore Factory Settings Button (4) and re-scan.
Bluetooth connection fails or is unstable.	Interference, distance, or incorrect pairing.	Ensure the master device is within range. Reduce interference from other wireless devices. Re-pair the adapter.
No data transmission.	Incorrect serial port settings or application configuration.	Verify the DB9 gender switch (5) is correct. Check the serial port settings (baud rate, parity, data bits, stop bits) on both the serial device and the BLE application. Ensure the BLE application is correctly configured to monitor/write characteristic values.

9. SPECIFICATIONS

Feature	Detail
Brand	Suapouen
Model Name	BT580
Item Model Number	500825751
Hardware Interface	Bluetooth 5, USB

Feature	Detail
Data Link Protocol	Bluetooth
Compatible Devices	Desktop, Laptop, Smartphone, Tablet
Colour	Grey
Product Dimensions	12 x 10 x 3 cm
Item Weight	85.5 Grams
Batteries Required	No (Internal rechargeable battery)

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for warranty claims.

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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

