

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

Manuals.plus /

- › [PDDAXLQUE](#) /
- › PDDAXLQUE CP26 RS232 to Bluetooth Serial Adapter User Manual

## PDDAXLQUE CP26

# PDDAXLQUE CP26 RS232 to Bluetooth Serial Adapter User Manual

Model: CP26

## 1. INTRODUCTION

---

The PDDAXLQUE CP26 RS232 to Bluetooth Serial Adapter is designed to enable wireless communication for traditional wired RS232 devices. This module allows seamless connection to Android/iOS smartphones, computers, and other compatible devices, facilitating debugging and data exchange without physical cables. This manual provides detailed instructions for setting up, operating, and maintaining your CP26 adapter, ensuring optimal performance and reliable wireless serial communication.



Image 1: The PDDAXLQUE CP26 RS232 to Bluetooth Serial Adapter with its antenna and RS232 cable.

## 2. PRODUCT COMPONENTS

The standard package for the CP26 adapter includes the following items:

- CP26 Adapter (x1 or x2 depending on variant)
- USB Charging Cable (x1 or x2)
- Rubber Stick Antenna (x1 or x2)
- RJ45 Adaptor Cable (x1 or x2)
- RS232 Adaptor Cable (x1 or x2)
- CP26 Instruction Manual (x1)

# Detailed description of CP26

The image shows a CP26 adapter with a rubber stick antenna. A circular inset provides a close-up of the internal components, including a battery and a chip, with labels: "Support Typc-C charging" and "24 hours of battery operation when not connected to a power source". Below the main image, two types of terminals are shown: "RJ45" and "RS232".

## WE ARE FACTORY

The factory overview includes images of the DX-SMART TECHNOLOGY logo, a control room with multiple monitors, and a production line with workers in cleanroom attire. A large stack of CP26 adapters is also visible.

We are not ordinary retail stores, we are source factories. We can provide you with high-quality products, one-on-one technical support, after-sales service, complete product development materials, etc. We can help you solve the problems you encounter. Please trust our ability and technology.

We have a strong supply chain and technical team to provide OEM and ODM services for you. Please contact us if you need any assistance.

Image 2: An overview of the components included in the DX-CP26 package for device-to-device communication, showing two CP26 adapters, antennas, USB cables, RS232 cables, and RJ45 adapter cables.

## 3. KEY FEATURES

The CP26 adapter offers a robust set of features for reliable wireless serial communication:

- **Advanced Chipset:** Utilizes Renesas DA14531 chip with PA Amplifiers for enhanced performance.

- **Bluetooth Standard:** Built-in Bluetooth 5.1 BLE module for long-range communication.
- **Interface Support:** Compatible with RS232 and RJ45 interfaces.
- **UART Default Parameters:** Default setting is 9600bps/8/n/1 (baud rate/data bit/no parity/stop bit).
- **Broad Compatibility:** Supports communication with Android phones, iOS devices, and PC (with additional CP11 module for PC).
- **Power Options:** Powered by USB (default) or built-in rechargeable lithium battery, with Type-C charging.
- **Extended Battery Life:** Provides up to 24 hours of continuous operation on battery power.
- **Adjustable Baud Rates:** Supports 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps.
- **External Antenna:** Includes a rubber stick antenna for improved signal range.
- **Compact Design:** Device dimensions are 60 x 27.8 x 16.4 mm.
- **Wide Operating Temperature:** Functions reliably from -40°C to +85°C.

## CP26 Key Features

1. Renesas DA14531 chip + PA Amplifiers
2. Bluetooth BLE 5.1
3. Support interfaces: RS232, RJ45
4. UART default parameters:  
9600bps/8/n/1 (Baud rate/Data bits/Parity/Stop bits)
5. Support communication between PC/IOS/Android and RS232 devices
6. Built in rechargeable lithium battery, capable of charging via Type-C port, with a continuous battery life of 24 hours.
7. Support changing baud rates, baud rates support: 2400, 4800, 9600, 19200, 38400, 57600, 115200.
8. External rubber stick antenna, Visual distance for communication with devices: mobile phone:90m / PC:70m / device to device:400m.
9. Device Size: 60 \* 27.8 \* 16.4mm
10. Working temperature: -40 to +85°C

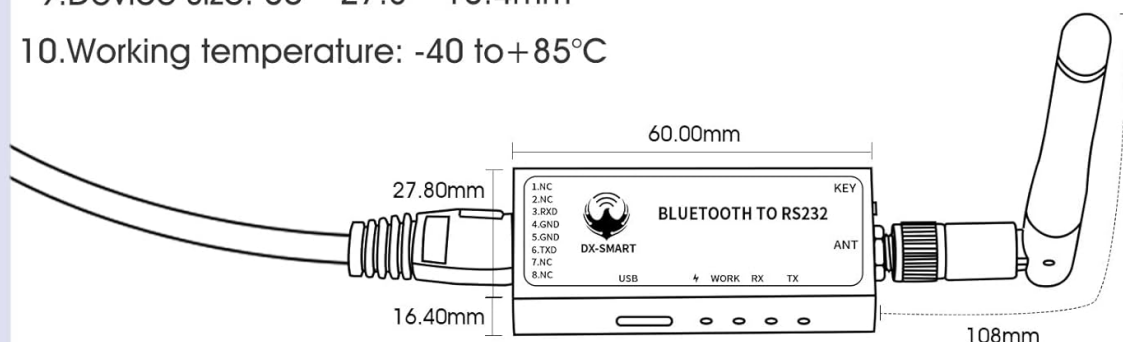


Image 3: Diagram illustrating the key features of the CP26 adapter, including its chip, Bluetooth version, supported interfaces, UART parameters, power options, and physical specifications.

## 4. SETUP AND INSTALLATION

## 4.1 Device Overview and Indicators

Familiarize yourself with the adapter's indicators and controls:

- **TX Data Indicator (Red):** Blinks when the adapter is transmitting data via Bluetooth.
- **RX Data Indicator (Green):** Blinks when the adapter is receiving data via Bluetooth.
- **WORK Status Light (Blue):** Indicates the current baud rate by blinking a specific number of times.
- **POWER Charging Indicator (Red):** Stays on when the product is charging and turns off when fully charged.
- **KEY Button:** A multi-function button for power control and baud rate adjustment.

# Hardware Construction Description

## 01 TX\RX\WORK\POWER Indicators

### TX Data Indicator:

Blinking when Bluetooth sends data.

### RX Data Indicator:

Blinking when Bluetooth receives data.

### POWER Charging Indicator:

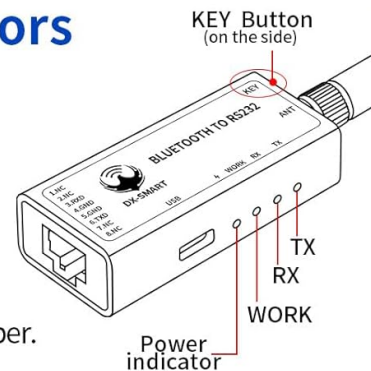
Connected: Blue light is on for a long time;

Not connected: Blue light blinking times represent baud rate number.

### Charging indicator:

Red light is on when the product is charging;

Red light is off when it is fully charged.



## 02 KEY Button\Baud rate adjustment

### KEY function:

**Bluetooth connected status:** short press once to disconnect Bluetooth connection.

**Bluetooth unconnected state:** Short press twice consecutively to switch baud rate.

**Power on:** Long press for one second to turn on the power.

**Shutdown:** Long press three seconds to shutdown.

### Baud rate switching method(Work indicator):

Short press the KEY foot twice in a row to switch the baud rate, the number of times the blue light blinks represents the baud rate number.

Blinking one time is 2400, two time is 4800, three time is 9600, four time is 19200, five time is 38400, six time is 57600, and seven time is 115200

(The factory default baud rate is 9600, and the blue light blinks for 3 times.)

Image 4: Detailed diagram showing the hardware components and indicators of the CP26 adapter, including TX, RX, WORK, and POWER lights, and the KEY button.

## 4.2 Power Supply

The CP26 adapter can be powered via USB or its internal battery. By default, it is set to USB power. To switch to battery power, move the switch to the 'BAT' end. The device has a built-in battery for portable use.

## 4.3 Connecting to Mobile Devices (Smartphones)

## 1. App Download:

- For iOS devices, download the 'DX-SMART' application from the App Store.
- For Android devices, download the application package from [szdx-smart.com](http://szdx-smart.com) and install it on your mobile phone.

2. **Power On:** Press and hold the KEY button on the CP26 for approximately one second to turn on the device.

3. **Pairing:** Enable Bluetooth on your mobile phone. Open the DX-SMART application and search for Bluetooth devices. Select and connect to the CP26 adapter.

4. **Communication:** Once connected, you can control and communicate with your RS232 device wirelessly through the application.

## Device and mobile phone connection method

### APP Download:

1. iPhone App can be downloaded from APP Store, search for 'DX-SMART'.
2. For Android App, download the package from [en.szdx-smart.com](http://en.szdx-smart.com) and install the Android App in the package to your Android mobile phone.

### How to connect the device and mobile phone?

1. Press and hold the KEY button of CP26 for one second to switch on.
2. Open the Bluetooth and positioning of mobile phone, then open the App, click 'Transmission', search for Bluetooth devices, and then you can control RS232 devices after successful connection.

Note: For more information, please refer to the product technical manual.



Android APP Interface

## Wireless communication between computer

The computer side needs to be used with our product CP11 Bluetooth adapter (included in the purchase).

1. Open the datasheet/download it from the official website and install the 'CH341' driver in the datasheet on your computer.
2. Insert the CP11 adapter into the computer, press and hold the KEY button of CP26 for one second to switch on the computer.
3. Open the serial port software and select the COM port of the corresponding CP11 adapter, and choose the default parameter configuration:9600bps/8/n/1.
4. Wait for the CP11 adapter to actively search for the CP26 Bluetooth converter and connect, the blue light is long on behalf of the connection is successful, after the connection can be data interaction.



Plug in CP11 adapter on PC side

## Wireless communication between devices

Wireless data communication between the two devices is achieved through the CP26 Multi-function Bluetooth Wireless Converter. Wireless data communication over the 232 interface is realised as shown in the figure below:

1. Connect the CP26 master to device 1 via the RS232/RJ45 interface.
2. Connect the CP26 slave to device 2 via the RS232/RJ45 interface.
3. The CP26 Master Bluetooth will CP26 slave Bluetooth connection.
4. After the connection can be data interaction.

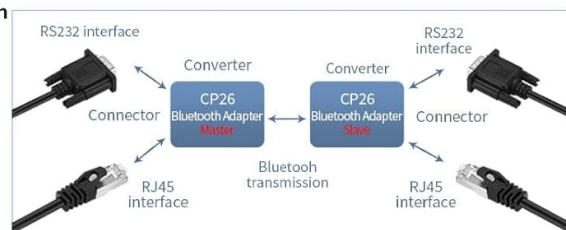


Image 5: Visual guide demonstrating the steps to connect the CP26 adapter to a mobile phone using the DX-SMART application, showing screenshots of the app interface.

### 4.4 Connecting to a Computer (PC)

To connect the CP26 adapter to a computer, an additional CP11 Bluetooth adapter (sold separately) is required. The CP26 adapter cannot be directly connected to a computer.

1. **Driver Installation:** Download and install the 'CH341' driver on your computer.

2. **CP11 Setup:** Plug the CP11 adapter into a computer USB port and power it on.
3. **CP26 Power On:** Press and hold the KEY button on the CP26 for approximately one second to turn it on.
4. **Serial Port Configuration:** Open your serial port software (e.g., Putty, RealTerm) and select the COM port corresponding to the CP11 adapter. Configure the default parameters to 9600bps/8/n/1.
5. **Connection:** The CP11 adapter will automatically search for and connect to the CP26 Bluetooth converter. The blue light on the CP26 will remain on once connected.
6. **Data Exchange:** After successful connection, data can be exchanged between the computer and the RS232 device connected to the CP26.

## 4.5 Device-to-Device Communication

Wireless data communication between two devices using CP26 adapters is achieved as follows:

1. Connect the first CP26 adapter (configured as 'Master') to Device 1 via its RS232/RJ45 interface.
2. Connect the second CP26 adapter (configured as 'Slave') to Device 2 via its RS232/RJ45 interface.
3. The CP26 Master Bluetooth module will automatically pair with the CP26 Slave Bluetooth module.
4. Once paired, data can be exchanged wirelessly between Device 1 and Device 2.

## 5. OPERATING INSTRUCTIONS

---

### 5.1 Power On/Off

- **Power On:** Long press the KEY button for approximately one second.
- **Power Off:** Long press the KEY button for approximately three seconds.

### 5.2 Baud Rate Adjustment

The baud rate can be adjusted by double-clicking the KEY button. The blue WORK status light will blink a specific number of times to indicate the selected baud rate:

Blinks	Baud Rate (bps)
1 time	2400
2 times	4800
3 times	9600 (Default)
4 times	19200
5 times	38400
6 times	57600
7 times	115200

The factory default baud rate is 9600 bps, indicated by three blue blinks.

### 5.3 Disconnecting Bluetooth

When the adapter is in a Bluetooth connected state, a short press of the KEY button will disconnect the Bluetooth connection.

## 6. APPLICATIONS AND USAGE SCENARIOS

The CP26 adapter can be utilized in various industrial and personal applications to convert wired RS232/RJ45 communication to wireless Bluetooth:

- **Total Stations:** View total station data on a mobile phone via a mobile application.
- **Network Switches:** Monitor and view data from network switches using a mobile application.
- **PLCs (Programmable Logic Controllers):** Update PLC programs from a computer via a USB interface.
- **Sensors:** Set inverter parameters on a computer for various sensors.
- **Lift Controllers:** Adjust elevator parameters using a PC.
- **Electronic Scales and Printers:** Establish wireless communication between electronic scales and thermal printers.



Image 6: Illustrative examples of the CP26 adapter's applications, showing its use with total stations, network switches, PLCs, sensors, lift controllers, electronic scales, and printers.

## 7. SPECIFICATIONS

Detailed technical specifications for the PDDAXLQUE CP26 adapter:

Feature	Specification
Model	CP26
Bluetooth Version	5.1 BLE
Hardware Interface	RS232, RJ45, USB (for power/charging)
Supported Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Default Baud Rate	9600bps/8/n/1
Power Supply	USB Type-C, Built-in rechargeable battery
VCC Power Supply Voltage Range	4.5V-6V
Battery Life	Up to 24 hours (continuous operation)
Dimensions (L x W x H)	60 x 27.8 x 16.4 mm
Operating Temperature	-40°C to +85°C
Communication Distance (Visual)	Mobile phone: 90m, PC: 70m, Device-to-device: 400m (unobstructed)
Compatible Devices	Android devices, iOS devices

## Details about CP26

1. TX: send data indicator (red)
2. RX: Receive data indicator (green)
3. WORK: working status light (blue)
4. POWER: Charging indicator (red)
5. KEY: Disconnect, switch & switch baud rate button
6. USB: USB power supply port, USB charging port
7. ANT: external antenna interface
8. RJ45&RS232:  
RJ45 communication port  
RJ45 to RS232 communication port

5. KEY Button  
(on the side)

**01 KEY Button\Baud rate adjustment**

**KEY function:**  
Bluetooth connected status: short press once to disconnect Bluetooth connection.  
Bluetooth unconnected state: Short press twice consecutively to switch baud rate.  
Power on: Long press for one second to turn on the power.  
Shutdown: Long press three seconds to shutdown.

**Baud rate switching method(Work indicator):**  
Short press the KEY foot twice in a row to switch the baud rate, the number of times the blue light blinks represents the baud rate number.  
Blinking one time is 2400, two time is 4800, three time is 9600, four time is 19200, five time is 38400, six time is 57600, and seven time is 115200  
(The factory default baud rate is 9600, and the blue light blinks for 3 times.)

**02 TX\RX\WORK\POWER Indicators**

**TX Data Indicator:**  
Blinking when Bluetooth sends data.

**RX Data Indicator:**  
Blinking when Bluetooth receives data.

**POWER Charging Indicator:**  
Connected: Blue light is on for a long time;  
Not connected: Blue light blinking times represent baud rate number.

**Charging indicator:**  
Red light is on when the product is charging;  
Red light is off when it is fully charged.

Image 7: A detailed view of the CP26 adapter, highlighting its Type-C charging port, internal battery, and the various communication ports (RJ45 and RS232).

## RS232/RJ45 to Wireless Bluetooth Interface

1. Alternative to traditional cable, simple wiring, labour saving, no need to cut slots, no need to drill holes.
2. Android and Apple APP and computer software can be realised through the converter. Wireless debugging and view 232/RJ45 device parameters.
3. Support Type-C charging, built-in battery, 24 hours battery life.
4. The default baud rate of DX-CP26 is 9600, supporting baud rate switching via button, ranging from 9600 to 115200. Press the KEY button twice to switch the baud rate, with the number of blue LED flashes indicating the baud rate value. Refer to the product manual for details.

### ▼ Two types of terminals



Image 8: Diagram illustrating the RS232 and RJ45 interfaces of the CP26 adapter, showing how it connects to various devices for wireless Bluetooth communication.

## 8. TROUBLESHOOTING

If you encounter issues with your CP26 adapter, consider the following common troubleshooting steps:

- **No Power:** Ensure the adapter is properly connected to a USB power source or that the internal battery is charged and the power switch is set to 'BAT'.
- **Connection Issues:** Verify that Bluetooth is enabled on your host device (smartphone or CP11 adapter for PC) and that the CP26 is powered on and discoverable. Ensure you are within the effective communication range.
- **Data Transmission Errors:** Check that the baud rate settings on both the CP26 adapter and the connected device (or software) match. The default baud rate is 9600bps. Refer to Section 5.2 for baud rate adjustment.
- **Software Compatibility:** For PC connections, ensure the correct CH341 driver is installed. For mobile devices, confirm you are using the official 'DX-SMART' application.
- **Interference:** Minimize potential interference from other wireless devices or strong electromagnetic fields.

For further assistance, please refer to the official website for testing software, user manuals, and development documents. If problems persist, contact customer support via Amazon email for resolution within 24 hours.

## 9. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video 1: An official product video from Daxia Longque demonstrating the unboxing and basic setup of the CP26 RS232 to Bluetooth Serial Adapter, including how to connect it to a computer and adjust baud rates.

## 10. WARRANTY AND SUPPORT

The PDDAXLQUE CP26 adapter is designed for reliable performance. The manufacturer provides comprehensive technical support. Resources such as testing software, user manuals, and development documents are available on the official website.

If you encounter any issues or require assistance, please contact the manufacturer directly via Amazon email. Support inquiries are typically addressed within 24 hours.

