

Taidacent XKT-R03

Taidacent XKT-R03 DIY Wireless Charging Module Instruction Manual

Model: XKT-R03

1. INTRODUCTION

The Taidacent XKT-R03 is a DIY magnetic induction wireless charging module designed for various electronic projects. It consists of a transmitter module and a receiver module, enabling wireless power transfer for devices requiring a 4.2V power supply. This manual provides essential information for the safe and effective use of the module.

2. SAFETY INFORMATION

- Ensure all connections are correct before applying power to prevent damage to the module or connected devices.
- Do not exceed the specified input voltage of 5V for the transmitter module.
- Avoid short-circuiting the output terminals of the receiver module.
- Keep the module away from water, moisture, and extreme temperatures.
- This product is intended for DIY and educational purposes. Exercise caution when handling electronic components.
- Do not attempt to modify the module beyond its intended use.

3. PACKAGE CONTENTS

The package typically includes the following components:

- 1x Taidacent XKT-R03 Transmitter Module with Coil
- 1x Taidacent XKT-R03 Receiver Module with Coil

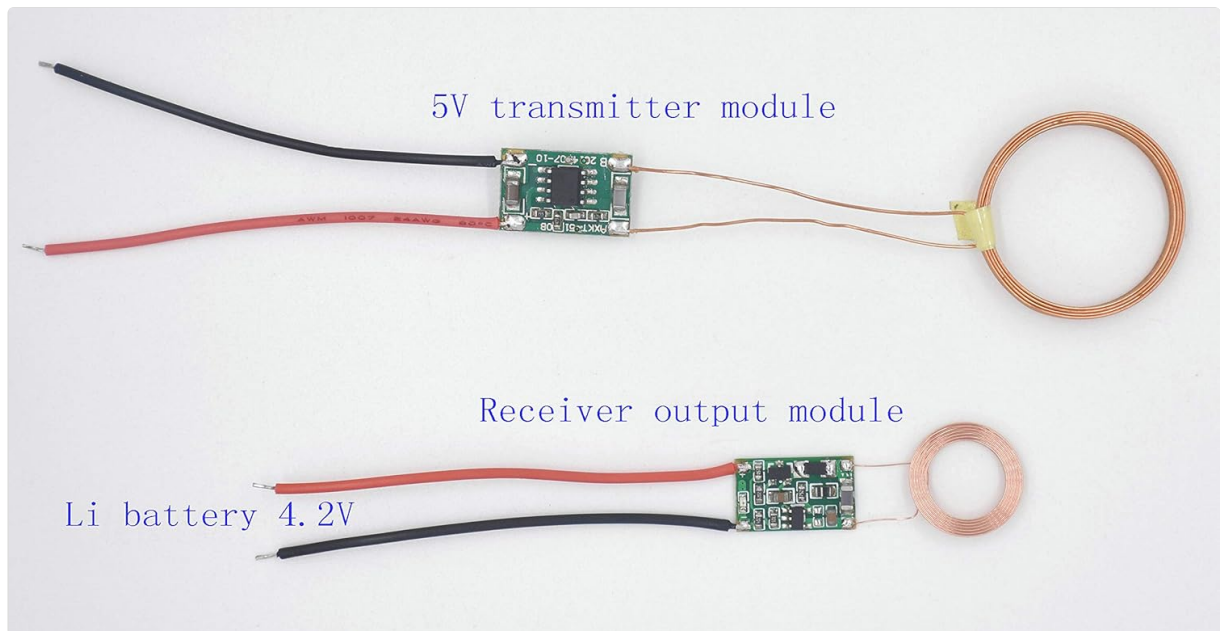


Image 1: Overview of the Taidacent XKT-R03 wireless charging module, showing the 5V transmitter module and the receiver output module, clearly labeled for connection to a 4.2V Li battery.

4. SPECIFICATIONS

Feature	Value
Transmit Working Voltage	5V DC
Transmitting Coil Size	Inner diameter 23.4mm, Outer diameter 27mm, Thickness 3mm
Receiver Coil Size	Outer diameter 14.5mm, Inner diameter 10mm, Thickness 1.3mm
Receive Output Voltage	4.2V DC
Receive Output Current	130mA
Connectivity Technology	Wireless (Magnetic Induction)
Special Feature	Magnetic
Item Weight	0.01 Kilograms

5. SETUP INSTRUCTIONS

Follow these steps to set up your Taidacent XKT-R03 wireless charging module:

- Identify Components:** Separate the transmitter module (larger coil, typically labeled for 5V input) and the receiver module (smaller coil, typically labeled for 4.2V output). Refer to Image 1 for visual identification.
- Connect Transmitter:** Connect a 5V DC power source to the input terminals of the transmitter module. Ensure correct polarity (red wire for positive, black wire for negative).
- Connect Receiver:** Connect the output terminals of the receiver module to the device or battery you intend to charge. The receiver provides 4.2V DC at 130mA, suitable for charging a 4.2V Li-ion battery. Observe correct polarity.

4. **Position Coils:** Place the transmitting coil and receiving coil in close proximity. For optimal performance, align the centers of the coils as closely as possible. The effective charging distance will vary based on alignment and environmental factors.
5. **Power On:** Once all connections are secure and coils are positioned, apply 5V power to the transmitter module. The receiver module should begin outputting power.

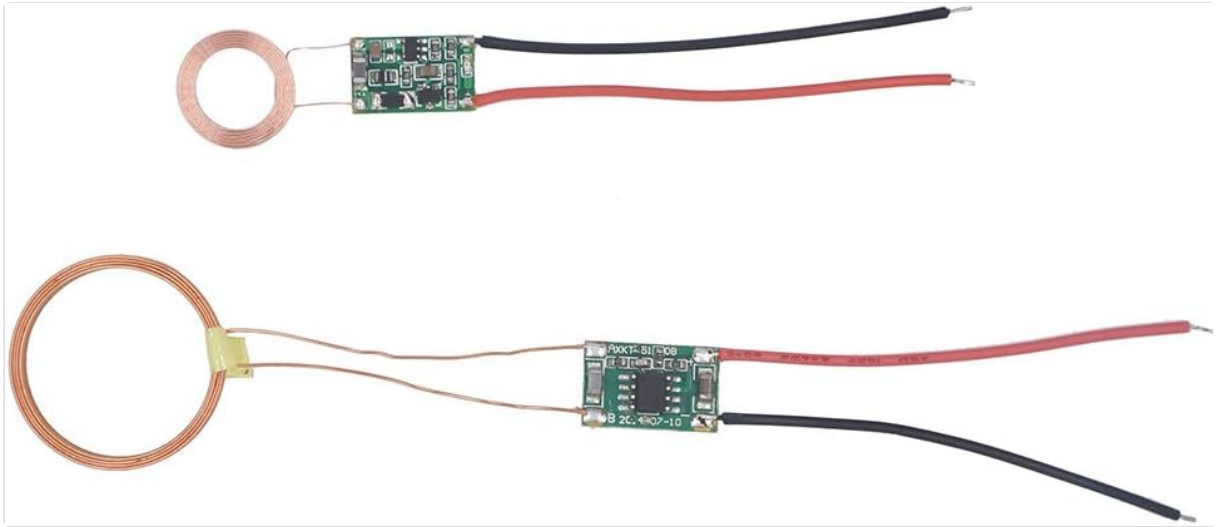


Image 2: A closer view of the transmitter and receiver modules, illustrating their compact design and wire connections.

6. OPERATING INSTRUCTIONS

Once the module is set up and powered, operation is straightforward:

- Ensure the transmitter is powered with a stable 5V DC supply.
- Place the receiving coil within the effective range of the transmitting coil. The closer the coils are, the more efficient the power transfer.
- The receiver module will automatically convert the wirelessly received power into a stable 4.2V DC output, suitable for charging compatible devices or batteries.
- Monitor the charging status of your connected device if it has an indicator.

7. MAINTENANCE

The Taidacent XKT-R03 module requires minimal maintenance:

- Keep the modules clean and free from dust and debris.
- Avoid physical stress or bending of the coils and circuit boards.
- Store in a dry environment when not in use.

8. TROUBLESHOOTING

Problem	Possible Solution
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No power output from receiver.	<ul style="list-style-type: none"> ◦ Verify the 5V input to the transmitter module is stable and correctly connected. ◦ Ensure the transmitting and receiving coils are properly aligned and within close proximity. ◦ Check for any loose connections or damaged wires. ◦ Confirm the receiver output is connected to a compatible load.
Low charging efficiency.	<ul style="list-style-type: none"> ◦ Improve coil alignment; try to center them perfectly. ◦ Reduce the distance between the transmitting and receiving coils. ◦ Ensure there are no metallic objects between the coils that could interfere with magnetic induction.
Module overheating.	<ul style="list-style-type: none"> ◦ Ensure the input voltage does not exceed 5V. ◦ Verify the load connected to the receiver does not draw excessive current beyond 130mA. ◦ Check for short circuits in the receiver output.

9. WARRANTY AND SUPPORT

Information regarding specific warranty terms for the Taidacent XKT-R03 module is not provided in this manual. For warranty claims or technical support, please contact your retailer or the manufacturer, Taidacent, directly through their official channels.

Please refer to the product packaging or the seller's website for the most up-to-date support information.