

Taidacent XKT-R02

Taidacent XKT-R02 Small Wireless Charger Module User Manual

Model: XKT-R02

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Taidacent XKT-R02 Small Wireless Charger Module. This module is designed for wireless charging and power supply in small electronic products, enhancing product lifespan and user convenience.

The XKT-R02 module consists of a transmitter and a receiver, enabling wireless power transfer for 4.2V battery applications.

SAFETY INFORMATION

- Ensure all connections are correct before applying power. Incorrect wiring can damage the module or connected devices.
- Do not exceed the specified operating voltages (Transmitter: 5V, Receiver output: 4.2V).
- Keep the module away from moisture and extreme temperatures.
- Handle components with care to avoid electrostatic discharge.
- This product is intended for integration into other electronic devices. Professional installation is recommended.

PRODUCT OVERVIEW

The Taidacent XKT-R02 is a compact wireless charging module designed for small electronic applications. It facilitates wireless power transfer to a 4.2V battery.

Key Features:

- Transmitter module operating voltage: 5V
- Receiver board size: 6mm x 10mm

- Transmitter module size: 17mm (length) x 11mm (width) x 2.4mm (height)
- Designed for tiny electronic products

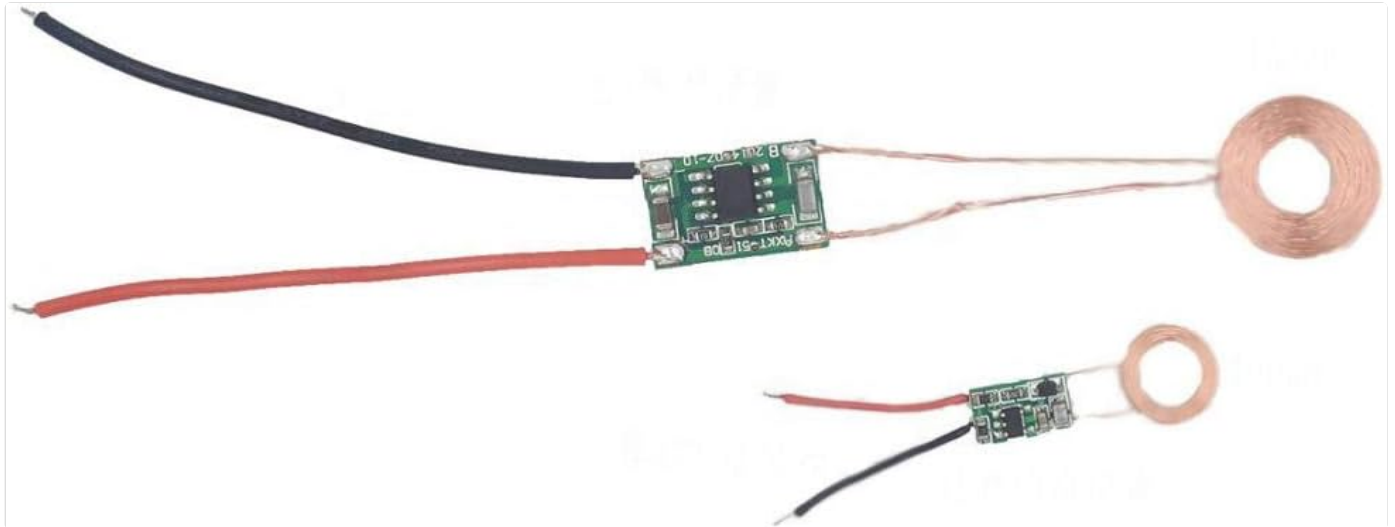


Image 1: Overview of the Taidacent XKT-R02 wireless charging module, showing both the transmitter and receiver components with their respective coils and wiring.

SETUP AND INSTALLATION

Follow these steps to correctly set up your Taidacent XKT-R02 wireless charging module.

1. **Identify Components:** Unpack the module and identify the transmitter board (larger, with 5V input wires) and the receiver board (smaller, with 4.2V output wires). Each board has a corresponding coil.

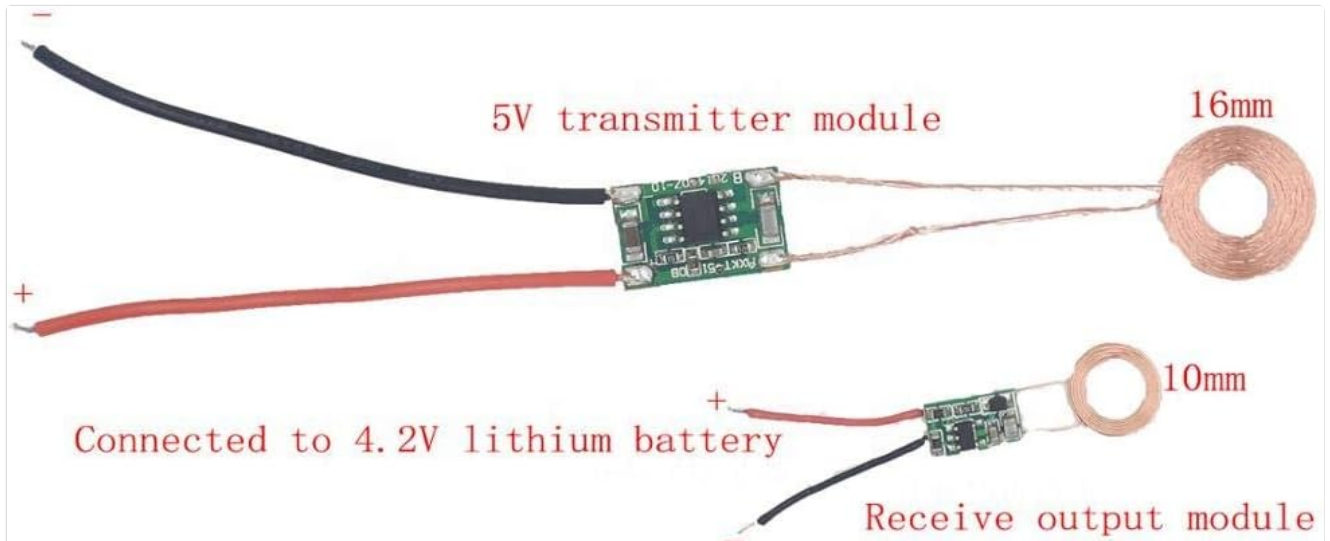


Image 2: Detailed view of the Taidacent XKT-R02 module, illustrating the 5V transmitter module and the receiver output module connected to a 4.2V lithium battery, with coil dimensions indicated.

2. **Connect Transmitter:** Connect a 5V DC power source to the input wires of the transmitter module. The red wire is typically positive (+), and the black wire is negative (-). Ensure the power source can provide sufficient current for your application.
3. **Connect Receiver:** Connect the output wires of the receiver module to your 4.2V lithium battery or other compatible device. The red wire is positive (+), and the black wire is negative (-).
4. **Position Coils:** Place the transmitter coil and receiver coil in close proximity. For optimal performance, align the centers of the coils. The effective charging distance will vary based on the application and coil alignment.
5. **Power On:** Apply power to the transmitter module. The receiver should begin charging the connected battery or

powering the device.

OPERATING INSTRUCTIONS

Once the module is set up, operation is straightforward:

- Ensure the transmitter is powered and the receiver is connected to the device requiring power.
- Maintain a consistent distance and alignment between the transmitter and receiver coils for stable power transfer.
- Monitor the charging status of your battery or the operation of your device.

Optimal Performance Tips:

- Minimize the distance between the coils.
- Avoid placing metallic objects between the coils, as this can interfere with power transfer and generate heat.
- Ensure the power supply to the transmitter is stable and within the specified 5V range.

MAINTENANCE

The Taidacent XKT-R02 module requires minimal maintenance:

- Keep the module clean and free from dust and debris.
- Regularly inspect wiring for any signs of damage or loose connections.
- Store the module in a dry, cool environment when not in use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power transfer	Transmitter not powered.	Verify 5V power to transmitter.
	Coils misaligned or too far apart.	Adjust coil alignment and reduce distance.
	Incorrect wiring.	Check all wiring connections.
	Faulty power supply.	Test power supply with another device.
Intermittent charging	Unstable coil position.	Secure coils in a fixed position.
	Interference from metallic objects.	Remove any metallic objects near coils.
	Fluctuating input voltage.	Ensure stable 5V input.
Module overheating	Overcurrent or overvoltage.	Verify input voltage and current draw.
	Short circuit.	Check for short circuits in wiring.
	Prolonged operation at maximum load.	Ensure adequate ventilation.

SPECIFICATIONS

Feature	Detail
Transmitter Operating Voltage	5V
Receiver Output Voltage	4.2V (for battery charging)

Feature	Detail
Receiver Output Current Limit	90mA
Receiver Board Size	6mm x 10mm
Transmitter Module Size	17mm (L) x 11mm (W) x 2.4mm (H)
Item Weight	0.81 ounces
Package Dimensions	4 x 2.3 x 0.01 inches
ASIN	B07S1S7591
Manufacturer	Taida

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Taidacent website or contact your point of purchase. Keep your purchase receipt for warranty claims.

Manufacturer: Taida

Date First Available: May 20, 2019

