

5V 1A / 1.5A Wireless Charger PCBA Board Receiver Module

The **5V 1A / 1.5A Wireless Charger PCBA Board Receiver Module** is a compact, high-efficiency wireless power receiving solution designed for seamless integration into a wide range of electronic devices. Engineered for reliability, stable performance, and compatibility with industry-standard wireless charging transmitters, this receiver module is ideal for product developers, OEM manufacturers, and electronics hobbyists looking to add wireless charging functionality without complex redesigns.

Built around proven wireless power transfer technology, this PCBA receiver module converts wireless energy into a stable **5V DC output**, supporting both **1A and 1.5A charging currents** depending on transmitter capability and system design. Its compact form factor, optimized circuitry, and robust thermal performance make it suitable for consumer electronics, IoT devices, smart accessories, medical equipment, and custom embedded applications.

High-Efficiency Wireless Power Reception

This wireless charger receiver module is designed to work with **Qi-compatible wireless charging transmitters**, ensuring broad interoperability and consistent power delivery. The optimized power management circuitry minimizes conversion losses, delivering efficient energy transfer while reducing heat generation. This results in safer charging, improved device longevity, and reliable performance even during extended operation.

With intelligent rectification and regulation, the module provides a clean and stable 5V output, protecting downstream components from voltage fluctuations. Whether used in battery-powered devices or direct system power applications, the receiver ensures smooth and dependable operation.

Compact, Integration-Friendly PCBA Design

The PCBA board is engineered for easy integration into space-constrained designs. Its low-profile layout and lightweight construction allow it to be embedded into slim enclosures such as smart wearables, handheld electronics, wireless sensors, and portable devices.

Clear solder pads and standardized output connections simplify assembly, making it suitable for both low-volume prototyping and high-volume manufacturing. The board design follows industry best practices for signal integrity, thermal management, and long-term durability.

Flexible Output Current: 1A or 1.5A

One of the key advantages of this wireless receiver module is its **flexible output current capability**. Depending on the charging transmitter and system configuration, the module supports:

- **5V / 1A** for standard wireless charging applications
- **5V / 1.5A** for faster charging and higher power demand devices

This flexibility allows designers to use a single receiver solution across multiple product lines, reducing component complexity and inventory costs.

Built-In Safety and Protection

Safety is a critical factor in wireless power systems. This receiver module includes multiple layers of protection to ensure safe and stable operation:

- Over-voltage protection
- Over-current protection
- Over-temperature protection
- Short-circuit protection

These features help protect both the receiving device and the wireless charging transmitter, making the module suitable for consumer-facing products that require high reliability and compliance with safety expectations.

Wide Range of Applications

The **5V 1A / 1.5A Wireless Charger PCBA Board Receiver Module** is suitable for a broad range of applications, including:

- Wireless charging power banks
- Smart home devices and IoT modules
- Wearable electronics and accessories
- Medical and healthcare devices
- Portable consumer electronics

- Custom embedded systems and prototypes

Its versatility makes it an excellent choice for engineers and product designers seeking a dependable wireless charging receiver solution.

Standards Compliance and Interoperability

This receiver module is designed to align with widely adopted wireless charging standards, ensuring compatibility with mainstream wireless chargers available on the market. For more information on wireless charging standards and interoperability, you can refer to the **Wireless Power Consortium (Qi Standard)**:

 <https://www.wirelesspowerconsortium.com>

Using a standards-based solution helps future-proof your product and ensures a better end-user charging experience.

Key Features

- Stable **5V DC output** with support for **1A and 1.5A charging currents**
- Compatible with **Qi-standard wireless charging transmitters**
- High-efficiency power conversion with low heat generation
- Compact, lightweight **PCBA board design** for easy integration
- Multiple built-in protection mechanisms for safe operation
- Suitable for consumer, industrial, medical, and IoT applications
- Ideal for OEM, ODM, and custom electronics projects
- Reliable performance with long service life

Why Choose This Wireless Charger Receiver Module?

By selecting this wireless charger PCBA receiver module, you gain a cost-effective, reliable, and integration-friendly solution that reduces development time while enhancing product value. Its combination of efficiency, safety, and flexibility makes it an excellent choice for modern wireless-powered device designs.

Whether you are developing a new product or upgrading an existing design, this module provides the performance and reliability required to meet today's wireless charging expectations.