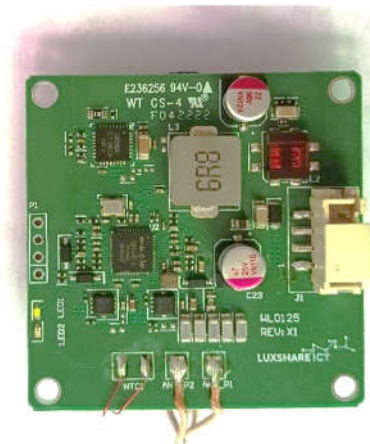
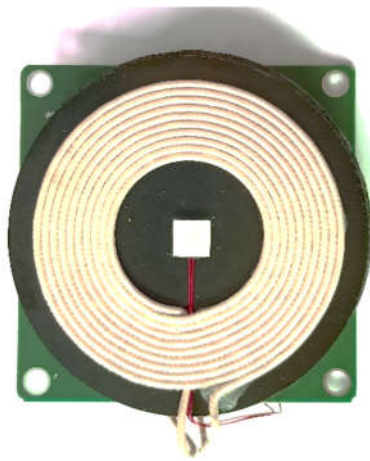


# USER MANUAL

Product: Wireless Charging

Model No: WL0125



This specification defines the electrical, reliability, EMC and REL requirements of the wireless charging transmitter base. The wireless charging system is based on electromagnetic induction technology.

## Working principle:

Wireless charging transmitter is a wireless charging solution based on electromagnetic induction technology provided by CPS. It is compatible with Qi-BPP/Samsung Fast charging standard, with charging area up to 10mm\*10mm and output power of 15W supporting It is based on the Qi (WPC 1.2.4) standard using near-field electromagnetic coupling and the power carrier amplitude modulation method to implement power transmission between the transmitting and receiving units.

The receiving unit receives the power electromagnetic energy transmitted by the transmitting unit and converts it into a DC current output to the power consumption part, and the receiving unit determines whether the received power requirement is met by detecting and calculating the received voltage and current, and converting the requirements into signal modulation on the power carrier, the transmitting unit returns the signal of the carrier amplitude change to the communication digital signal to the main control chip of the receiving unit, and the main control chip adjusts the output power according to the received information until meet power requirements at the receiving end.

After the wireless charger transmits part, in a short period of time, the main control chip completes the communication between the self-test and the power adapter, determines the power range that can

be output, and then starts sending the detection signal to the load: such as the detection signal and the PIN information. The control chip sends a PIN control signal to the full bridge power part ,converting it into the electromagnetic power carrier , and if there is no load, it is sent intermittently.

When there is load, the load receives the power electromagnetic energy and responds to the information according to the requirements of the Qi standard. The information is modulated on the power carrier by the receiving coil. The modulation of the receiving end causes a slight amplitude change of the voltage amplitude of the power carrier.

## Specifications:

Input voltage: 20~36V

Wireless Charging Output: 15W (Max.)

Static power:  $\leq 0.25W$  (Without Rx)

Charging area: 6mm\*6mm

Charging height: 3-9mm (Transmitting coil to Receiving coil)

Charging efficiency:  $\geq 65\%$ @15W output, 3mm distance

## Use procedure:

- 1.Power by DC 20V~36V
- 2.Put the mobile phone or iPad right above the device
- 3.The device is charging
- 4.When the device is fully charged, the wireless charger remains in standby mode

## FCC Label Compliance Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment. Declaration the Restriction of this Limited Module Approval:

According to FCC Part 15 Subpart C Section 15.212, the radio elements of the modular transmitter must have their own shielding. However, due to there is no shielding for this Module, this module is granted as a Limited Modular Approval.

When this Module is installed into the end product, Class II Permissive Change or a New FCC ID submission is required to ensure the full compliance of FCC relevant requirements. When this Module is installed into the end product, the device shall be used with a minimum separation distance of 10 cm between the user or bystander and the device. The following information shall be included in the product manual and label:

Contain FCC ID: 2A78H-WL0125 .

Under such configuration, the FCC radiation exposure limits set forth for an operation / uncontrolled environment can be satisfied.

Only FCC approved antenna can be used for the module integrated into host.

The module only use for Shandong Kangtai Industry Co., Ltd, not sale to the third parties.