User's manual

1. Product Introduction

AWC-TS1531-BQ adopting GP3105B scheme; GP3105B is a high-integrated solution for QI Compliant Wireless Power Transmitter. It integrates the WPC QI standard of Version BPP_V1.3 and has high performance inPACKET(Signal) Demodulation.Several protection approaches are included to avoid system run into abnormal condition such as over current, low voltage,thermal protection,and offset protection.GP3105B provides an application circuit for wearable application.For wearable applications,PWM directly driver MOSFET is featured.

2. FEATURES

●Conforms to the Wireless Power Consortium(WPC) Wireless.

●Power Transfer Transmitter BPP_V1.3 Specification.

●DC 12V/1.5A input power supply.

●QI 15W/10W/7.5W/5W Wireless fast charging output.

●Auto detecting the object put-on and removal.

●Over Current protection.

●Over Voltage Protection.

●Over temperature protection(65℃);

3. Power allocation

PSU Type	Outputpower
DC>=18W(12V/1.5A)	EPP15W / Samsung 10W / 7.5W/BPP5W

4. LED definition

Users can pull out two LED to indicate the status based on their selection; PCB has reserved soldering points; The Red/BLUE LED indicator lights display the following status:

State	BLUE light	Red light
power on	Blue and red lights flash 3 times simultaneously	
Standby	not have	not have
charge	Breathing light on	not have
Fully charged	The blue light is constantly on	not have
FOD	Simultaneously flashing	Simultaneously flashing
abnormal	Simultaneously flashing	Simultaneously flashing

5. FCC 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).