

Wireless Charging Module



User's Guide for PTM-520K

POWER CAST CO., LTD.

Feature

- Input voltage/current: DC 5V 2A
- Output voltage/current: DC 5V 1A
- Frequency: 110 ~ 129 kHz
- Charging efficiency $\geq 70\%$
- Operation Temperature: -30 ~ 45

Note on Wireless charging

Depending on the location of the charging coil on your mobile device, your device may not charge in all positions. Find the position that works best for your device.

Wireless charging may not work if you have a case that is A) too thick or B) has a magnet. In order to charge, you will need to remove the case before placing on the charging pad.

If you are using an attached wireless charging case on your mobile device, never place just the case on the charging pad. This may overheat the charging pad and/or the case, and has a risk of fire and injury.

If you connect a wired or portable battery charger to your device while it is on the charging pad, the pad will disable wireless charging.

Precautions

- Do not drop the Wireless charging module from high places.
- Do not modify, repair, or take the Wireless charging pad apart.
- Do not clean with water alcohol or benzene.
- Keep the Wireless charging pad away from humidity & dust.

Declaration of confirmation

FCC NOTICE TO USERS: 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

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 correct the interference by one 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 which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

DANGER to reduce the risk of electric shock

- Do not reach for a device that has fallen into water. Unplug it immediately.
- Do not place in or drop into water or other liquid.

WARNING to reduce the risk of burns, fire, electric shock or injury to persons

- Use this device only for its intended use as described in this manual. Do not use with unauthorized accessories of devices.
- Never operate this device if it has a damaged plug, cable or Coil.
- Keep cable away from heated surfaces.
- This device is designed for indoor use only. Do not use outdoors.

**This product can be used in which EU members, in accordance with Article 10(10) /
or this product can be used in at least one EU country, in accordance with Article 10(2).**

This device complies with FCC & IC radiation exposure limits set forth for an uncontrolled environment. This module may not be co-located with any other transmitters or antennas. The antenna must be installed such that 20cm is maintained between the antenna and users.

FCC Label

Model name: PTM-520K

FCC ID: 2A2GT-PTM-520K

Manufacturer:

POWER CAST CO., LTD.

Ver 0.1



Regulatory notice to host manufacturer according to KDB 996369 D03 OEM Manual

List of applicable FCC rules

This module has been granted modular approval as below listed FCC rule parts.

FCC Rule parts 15C (15.209)

Limited module procedures

The module is approved as a “limited module” without shielding. The device can be used in mobile exposure conditions only. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

RF exposure considerations

The module must be installed in the host equipment such that at least 20cm is maintained between the antenna and users' body; and if RF exposure statement or module layout is changed, then the host product manufacturer required to take responsibility of the module through a change in FCC ID or new application. The FCC ID of the module cannot be used on the final product. In these circumstances, the host manufacturer will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

Antennas

Antenna Specification are as follows:

Type: Inductive loop coil Antenna

Gain: 0 dBi

This device is intended only for host manufacturers under the following conditions:

The transmitter module may not be co-located with any other transmitter or antenna;

The module shall be only used with the internal antenna(s) that has been originally tested and certified with this module. The antenna must be either permanently attached or employ a ‘unique’ antenna coupler.

As long as the conditions above are met, further transmitter test will not be required. However, the host manufacturer is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.)

Label and compliance information

The module is labeled with its own FCC ID Certification Number.



If the FCC ID Certification Number are not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.

Contains FCC ID: 2A2GT-PTM-520K

Information on test modes and additional testing requirements

Operation Frequency: 110 ~ 129 kHz

Modulation: Backscatter

This is a limited module authentication case, and C2PC progress is required when the host is changed.

Host manufacturer must perform test of radiated & conducted emission and spurious emission, etc. according to the actual test modes for a stand-alone modular transmitter in a host, as well as for multiple simultaneously transmitting modules or other transmitters in a host product.

Only when all the test results of test modes comply with FCC requirements and C2PC grant is issued, then the end product can be sold legally

Additional testing, Part 15 Subpart B disclaimer

The modular transmitter is only FCC authorized for FCC Part 15 Subpart C 15.209 and that the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. If the grantee markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuitry), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

