

Wireless charging system

1. Description

Wireless Power Charger System

It is electromagnetic induction wireless charging system. Wireless power charger transmits 10W power to mobile. Qi (WPC) certified cell phone, which is a standard for wireless charging, or a case dedicated to wireless charging, can be used this system.

※ Reference

- Qi : One of the wireless charging standards
- WPC : Abbreviation of Wireless Power Consortium
- Electromagnetic induction : When an electric current is sent through a coil (a wound-up cable), it creates a magnetic field whose action generates another electric current in a second coil

2. Product features

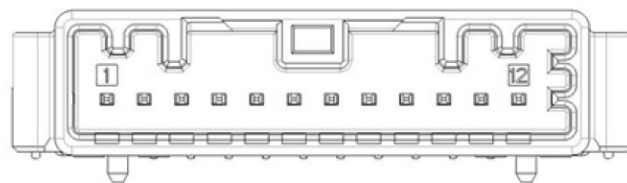
- 1) Wireless charging for automobile
- 2) Support high speed wireless charging (10W)
- 3) Support coil cooling function by FAN
- 4) Support FOD(Foreign object detection)function
- 5) Support wireless charging system protection function
(Over voltage, Over current, Over temperature prevention)
- 6) Apply Qi 1.3 ver
- 7) Support NFC communication for Car digital Key

3. Operating band

- 1) Wireless Charging : 127.7Khz (± 0.5 KHz)
- 2) NFC : 13.56MHz

4. Connector pin description

CONNECTOR PIN ARRANGEMENT

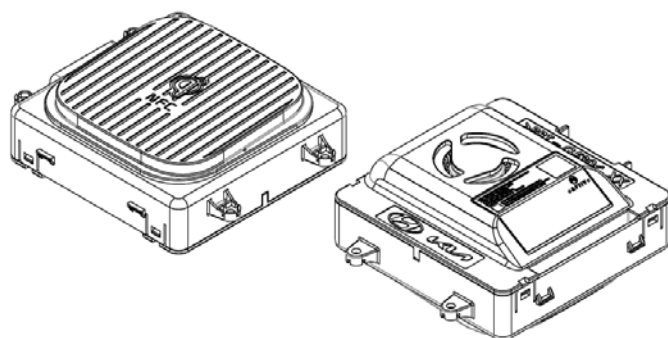


PIN #	Description
1	Ground
2	Ground
3	PWM LED AMBER OUT
4	PWM LED GREEN OUT
5	B-CAN LOW
6	B-CAN HIGH
7	Not connected
8	L-CAN LOW
9	L-CAN HIGH
10	Not connected
11	IGN +
12	BAT +

5. How to use

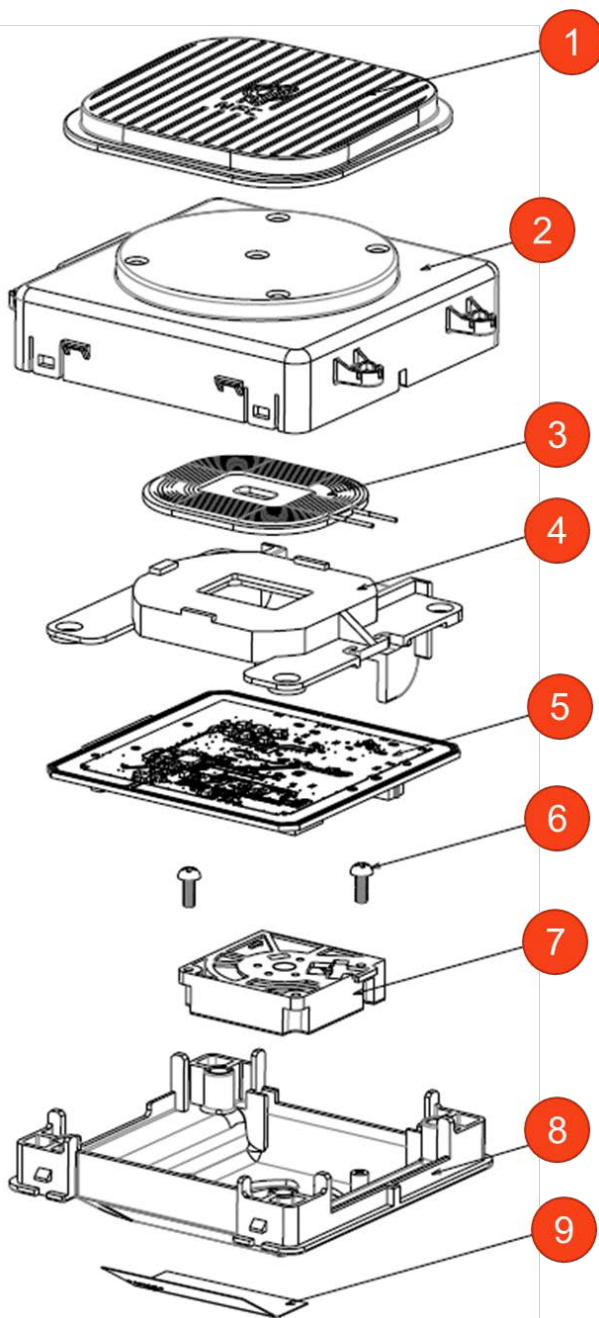
- 1) Input IGN+, BAT+ power to Wireless charger by #11, #12 pin on connector.
- 2) Put mobile which support wireless charging on the wireless charger
- 3) Check wireless charging connection.

6. Product picture



7. Product organization

- 1) PAD
- 2) TOP COVER
- 3) COIL ASSEMBLY (MP-A13)
- 4) COIL SPACER
- 5) PCB ASSEMBLY
- 6) SCREW
- 7) FAN
- 8) HOUSING
- 9) LABEL



8. Matching parts

Front console or Center console in automobile



WPC

9. Certification statement

• FCC

RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. End users must follow the specific operating instructions for satisfying RF exposure compliance.

"This equipment should be installed and operated with minimum distance 15cm between the radiator & your body."

• ISED statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of

the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ISED RF Radiation Exposure Statement:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur. Les utilisateurs finaux doivent suivre les instructions d'utilisation spécifiques pour satisfaire la conformité d'exposition RF.

• CE statement

Hereby, Aptiv Korea LLC declares that the radio equipment type Single Coil WPC Type 2 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
https://drive.google.com/drive/folders/1GcWrd7BkaazbTcmI9m4hbKFI4G4Fr8_S?usp=sharing

Frequency	Max. Power (EIRP, Tolerance)
127.7 KHz (±0.5KHz)	10W ±1W
13.56 MHz	N/A (use Near field antenna)

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.

Types of vehicles equipped

- 1. HYUNDAI : NX4 PE**
- 2. GENESIS : JK PE**

• KC statement

- 1. 적합성평가를 받은 자의 상호: 한국애티브 유한회사
- 2. 제품 명칭: Single Coil WPC Type 2 NFC
- 3. 제조자 및 제조국: 한국애티브 유한회사 / 한국
- 4. 제조년월: 별도 표기
- 5. 모델명: 35703750
- 6. 인증번호: xxxxxxxxxxxxxxxxxxxxxxxxx