

WCM

Wireless Charger Module



- **Fully compliant with Wireless Power Consortium standard**

- Qi 1.3 Certification
- Dual Multiple A13 coils
- BPP and EPP profiles support

- **Friendly user experience with**

- Dual charging at the same time
- Customized fast-charging protocols

- **High reliable function Safety requirements with**

- Advanced FOD by Q factor and Power loss
- Functional safety monitoring by ASIL-B MCU

- **Secure Car Access with**

- Compliant with CCC digital key
- BLE for data communication and power management
- UWB for key ranging and positioning
- NFC for contactless communication

- **Upgradable function with**

- OTA (Over the Air Programming)

Item	Description
WPC	<ul style="list-style-type: none"> • WPC V1.3 (V1.24 present) • Max Power 15W *2 • Max Efficiency >65% • A13 Coil.
Electrical	<ul style="list-style-type: none"> • BATT 6V~17V (BAT 12V) • MAX 7.41A • Standby <100mA
SW	<ul style="list-style-type: none"> • AutoSAR Ready • Update by CAN bus
NFC	<ul style="list-style-type: none"> • ISO14443A/ B, iSO15693 and FeliCa, ISO 18092(NFCIP- 1) Active P2P • 13.56MHz
BLE	<ul style="list-style-type: none"> • 2.4 GHz Bluetooth Low Energy (Bluetooth LE) version 5.0
UWB	<ul style="list-style-type: none"> • low - energy • IEEE 802.15.4 HRP UWB PHY and IEEE draft 802.15.4z BPRF/HPRF UWB PHY • Distance to a precision of up to 10 cm
Temperature	<ul style="list-style-type: none"> • Operation Temp -40~85 C • FOD Support Q factor and PWR loss detection • FAN for Cooling
Mechanica	<ul style="list-style-type: none"> • 205mm x140mm x30mm • ~500g
EMC	<ul style="list-style-type: none"> • ECE R10.05
CCC Digital Key 2.0	<ul style="list-style-type: none"> • Unlock / Lock the Vehicle • Start the Engine • Digital Key Properties

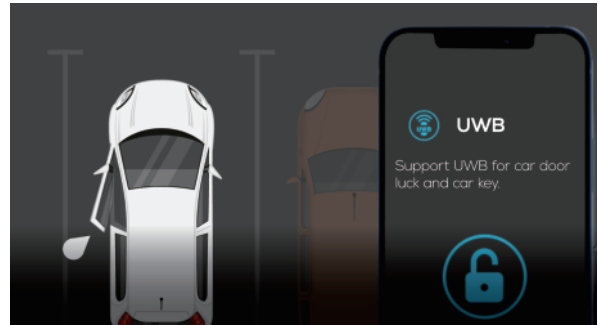
Wireless Charger Module



Scenario



Qi Standard



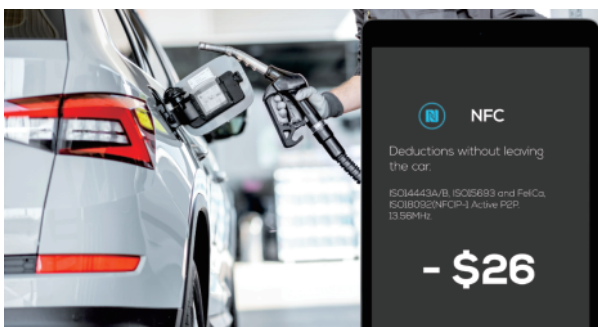
UWB



Foreign Object Detection (FOD)



UWB



NFC