Wireless Power Tx Module
FIT-WPT110M

Applications
✓ Smart and other Handhelds
✓ Hermetically Sealed Devices and Tools
✓ Cars and Other Vehicles
✓ Bluetooth Speaker
✓ Tabletop Charge Surfaces
✓ Other Portable Devices

Feature
✓ Standard : WPC1.1 Compliant
✓ Main Chipset : BQ500211A(TI)
✓ Tx Coil : Type A11, No Magnet
✓ Including FOD(Foreign Object Detection)
✓ Dynamic Power Limiting For USB and Limited Source Operation
✓ LED Indication Of Charging State and Fault Status
✓ Over Voltage Protection, Over Current Protection

Specifications
✓ Input : 5V/2A, 3-Type (Micro USB, Wire Solder, 4pin Connector(Molex 78171-0004 : DNI ))
✓ Efficiency : 75% max
✓ Operation Frequency : 112~205kHz
✓ Size : 52 x 52 x 6.4mm

Easy Interface

<table>
<thead>
<tr>
<th>Pin no.</th>
<th>Name</th>
<th>I/O</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Vcc</td>
<td>Input</td>
<td>Wireless Charger Input Power, 5V/2A</td>
</tr>
<tr>
<td>2</td>
<td>LED Red</td>
<td>Output</td>
<td>Charging State Indication LED</td>
</tr>
<tr>
<td>3</td>
<td>LED Green</td>
<td>Output</td>
<td>Charging State Indication LED</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
<td>NA</td>
<td>GND</td>
</tr>
</tbody>
</table>
LED Modes

<table>
<thead>
<tr>
<th>LED</th>
<th>STANDBY</th>
<th>POWER TRANSFER</th>
<th>CHARGE COMPLETE</th>
<th>FAULT</th>
<th>DYNAMIC POWER LIMITING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Off</td>
<td>Off</td>
<td>On</td>
<td>Blink Slow</td>
<td>On</td>
</tr>
<tr>
<td>Red</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
</tr>
</tbody>
</table>

When you use external LED

1. Remove R27, R28 from Module.
2. Connect each color LED to R(RED), G(GREEN) pins.
3. Resistance of R, G pins are R57, R58.
   Both default value are 470 Ohm.

Distance of between Rx coil and Tx coil

- Suitable distance is about 3~4mm.
- Lay Rx, Tx Shielding out both ends.
Wire Solder

Micro USB

4-Pin Conn.

3-Type I/O

1. Wire Solder
   ✓ Vcc : Input 5V/2A
   ✓ R : Output 3.3V, LED RED
   ✓ G : Output 3.3V, LED GREEN
   ✓ GND

2. Micro USB (Type B)
   ✓ Input 5V/2A

3. 4-Pin Board-to-Wire Connector
   ✓ Molex 78171-0004
   ✓ DNI (Do Not Insert)

Contact Us : marketing@fit2u.kr
Wireless Power Rx Module
FIT-WPR110M

Applications
✓ Smart and other Handhelds
✓ Hermetically Sealed Devices and Tools
✓ Other Portable Devices
✓ Other else applications

Feature
✓ Standard : WPC1.1 Compliant
✓ Main Chipset : BQ51013B(TI)
✓ Including FOD(Foreign Object Detection)
✓ Rx Coil : PCB Pattern
✓ Over Voltage Protection, Over Current Protection
✓ Thermal Shutdown

Specifications
✓ Output : 5V / 1A max, Recommended 5V / 400~700mA
✓ Efficiency : 73% max
✓ Operation Frequency : 112~205kHz
✓ Size : 40 x 70 x 0.7mm, max 1.4mm(Component Part)

Easy Interface

<table>
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<tr>
<th>Pin no.</th>
<th>Name</th>
<th>I/O</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1</td>
<td>Vcc</td>
<td>Output</td>
<td>Wireless Charger Input Power, 5V/1A max</td>
</tr>
<tr>
<td>J2</td>
<td>CHG_DET</td>
<td>Input</td>
<td>Wired Charging Indication pin. If Wired Adaptor is used, Wireless charging is stop</td>
</tr>
<tr>
<td>J3</td>
<td>CHG_DONE</td>
<td>Input</td>
<td>Charging done Indication pin</td>
</tr>
<tr>
<td>J4</td>
<td>GND</td>
<td>NA</td>
<td>GND</td>
</tr>
</tbody>
</table>
Wireless Power Rx Module
FIT-WPR110M

Interface

- J1(CHG) : Vcc, Output, 5V/1A Max.
- J2(DET) : Wired Charging Indication, Input
- J3(DONE) : Charging Done Indication, Input
- J4(DGND) : GND

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