

RENESAS



# 15 W

## DEVELOPMENT KIT

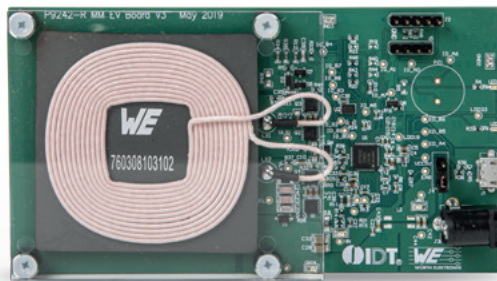
Wireless Power Transfer  
Extended Power Profile  
Order Code 760308MP2

# Content and Usage

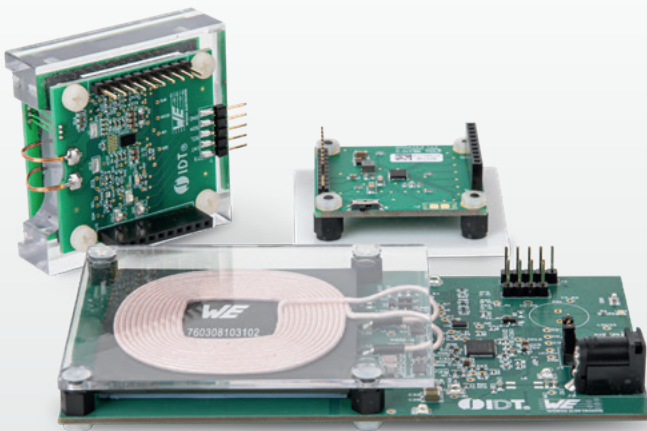
Renesas Electronics and Würth Elektronik eiSos together offer a wireless power development kit (order code 760308MP2) to demonstrate the advantages of wireless power and to give developers the opportunity to test and integrate a wireless power solution to their application.

Please note that this development kit is intended to be operated in a research and development environment under supervision of qualified technicians or engineers for test and measurement purposes. This development kit is not designed to fulfill requirements for CE compliance.

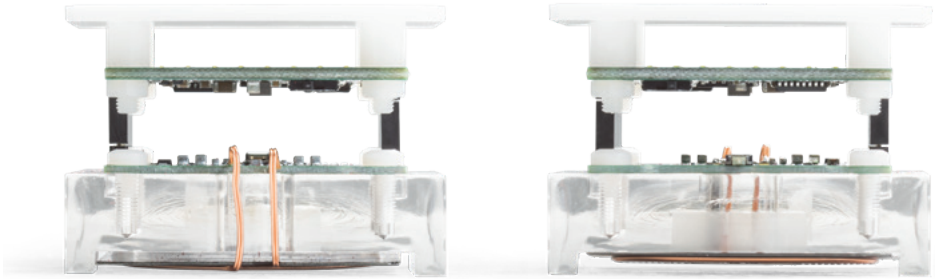
## Transmitter Module



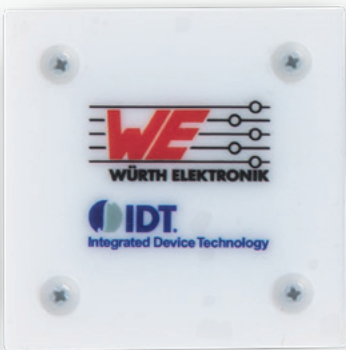
## Receiver Module and LED Load Module



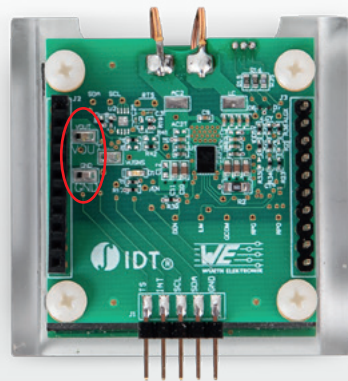
## Stacked Receiver System



The Receiver System consists of the Receiver and the LED Load Module. Different combinations are available for the users to match their application needs. Please refer to the user manual.



1. Remove top plane



2. Connect your device on those two pads Vout is 12 V<sub>DC</sub>. Connect your debug connector to J1 for programming

## Power Supply

Connect and power up the transmitter board by using the provided power adapter.



More detailed technical description for developers and the latest firmware version can be found on our website: [www.we-online.com/wirelesspower/15WKit](http://www.we-online.com/wirelesspower/15WKit)

Please note that there will be no support for the firmware. It is a basic functionality software meant for demonstration purposes.

## Key components from Würth Elektronik eiSos and Renesas Electronics

Manufacturer	Product Family	Part Number
Würth Elektronik eiSos	WE-WPCC Wireless Power Transmitter Coil	<b>760308103102</b>
Würth Elektronik eiSos	WE-WPCC Wireless Power Receiver Coil	<b>760308102207</b>
Renesas Electronics	Wireless Power Transmitter IC	<b>P9242-RBNDG18</b>
Renesas Electronics	Wireless Power Receiver IC	<b>P9221-R3AHG18</b>

# Additional Terms

## **Additional Terms, warnings, restrictions and disclaimers of the Integrated Device Technology and Würth Elektronik eiSos Wireless Power Development Kit (later defined as DEVELOPMENT KIT)**

Renesas Electronics and Würth Elektronik eiSos (later defined as WE) provide the enclosed DEVELOPMENT KIT under the following conditions: The user has to bear all responsibility and liability for the proper and safe handling with regard to this DEVELOPMENT KIT. The user shall indemnify Renesas Electronics and WE from all claims arising from the handling or utilization of the DEVELOPMENT KIT. In the case this DEVELOPMENT KIT does not comply with the specifications indicated in the Manual, the DEVELOPMENT KIT may be returned within 30 days from the date of delivery for a full reimbursement of the purchase price.

THE FOREGOING LIMITED WARRANTY IS THE EXCLUSIVE WARRANTY MADE BY RENESAS ELECTRONICS AND WE TO THE USER AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. EXCEPT TO THE EXTENT OF THE INDEMNITY SET FORTH ABOVE, NEITHER PARTY SHALL BE LIABLE TO THE OTHER FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

**Please read the Manual carefully prior to handling the DEVELOPMENT KIT. This Manual contains essential safety information regarding temperatures and voltages.**

No license is granted under any patent right or other intellectual property rights of Renesas Electronics or WE covering or relating to any machine, process and procedure, or combination in which such the DEVELOPMENT KIT or services might be or are used. Our arrangement with the user is not exclusive as Renesas Electronics and WE are currently working with a large number of customers for DEVELOPMENT KITS. Renesas Electronics and WE bear no liability for applications assistance, customer product design, software performance, or infringement of patents or services described in the Manual.

### **Code of federal regulations**

As noted in the DEVELOPMENT KIT Manual, this DEVELOPMENT KIT and/or accompanying hardware may or may not be subject to and compliant with the Code of Federal Regulations, Title 47, Part 15.

For DEVELOPMENT KITS annotated to comply with the Code of Federal Regulations, Title 47, Part 15. Operation is subject to the following two conditions: (1) This DEVELOPMENT KIT may not cause harmful interference, and (2) this DEVELOPMENT KIT must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This DEVELOPMENT KIT as a Class A digital apparatus complies with Canadian ICES-003. Changes or modifications not expressly approved by the party responsible for compliance could void the users' authority to operate the equipment. For DEVELOPMENT KITS annotated as not subject to or compliant with the Code of Federal Regulations, Title 47, Part 15. This DEVELOPMENT KIT is intended for use for ENGINEERING DEVELOPMENT, DEMONSTRATION, OR EVALUATION PURPOSES ONLY and is not considered by Renesas Electronics and WE to be a finished end product fit for general consumer use. It generates, uses, and can radiate radio frequency energy and has not been tested for compliance with the limits of computing devices pursuant to the Code of Federal Regulations, Title 47, Part 15, which are designed to provide reasonable protection against radio frequency interference. Operation of the equipment may cause interference with radio communications, in which case the user at its own expense will be required to take whatever measures may be required to correct this interference.

**For Feasibility Evaluation Only, in Laboratory/Development Environments.** The DEVELOPMENT KIT is not a complete product. It is intended exclusively for preliminary feasibility evaluation in laboratory/development environments by technically qualified electronics experts. Those experts mandatory have to be familiar with the dangers and application risks in connection with handling electrical mechanical components, systems and subsystems. It should not be used as an end product or as a part of an end product.

