

Evaluation Kit for Wireless Power and Data Transmission from RRC power solutions

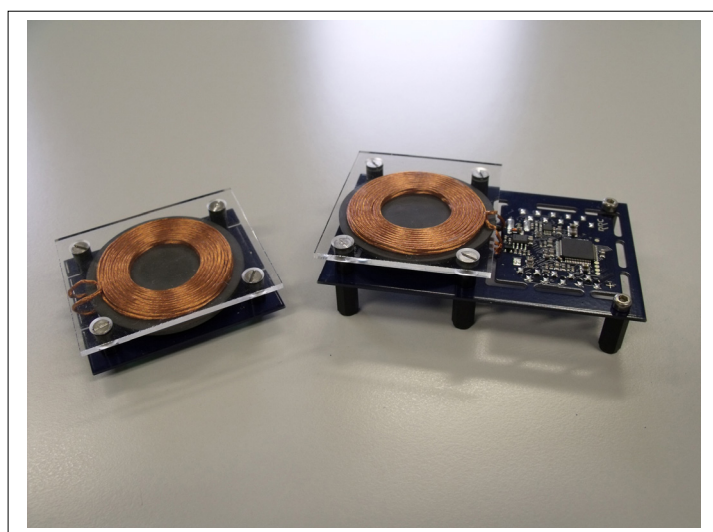
Contactless power transmission through inductive proximity coupling is becoming more and more popular. According to current market forecasts in 2014 over 460 Millionen mobile phones, MP3 players and computers will be contactless and this doesn't take the multitude of solutions into account in industrial applications, electro-mobility and medical technology.

To get acquainted with the technology inherent in contactless power transmission, RRC power solutions developed an evaluations kit which can be used as a plug-and-play demonstrator, as well as a developer tool for installation in existing environments.

The evaluations kit is composed of a power transmitter with a sender coil, a universal power supply with 19VDC output voltage, a receiver module with a receiver coil and various headers and receptacles (for use in a developer environment). The receiver module provides a regulated output voltage of 5V and a maximum of 5W power output. The power transmitter has integrated safety functions such as automatic receiver detection, the continuous reception of status information from the receiver, foreign object detection, as well as monitoring of the input and output voltage. The receiver module has integrated safety functions such as for example, the continuous transfer of status information to the power transmitter, as well as surge and undervoltage protection. The compatibility with Qi standard is realized by a firmware update.

The evaluation kit from RRC can not only be used as an independent, ready-to-operate demonstration set, but also for installation in customer prototypes. To do this, the power transmitter with its coil, as well as the receiver module with its coil are removed from the carrier boards, in order to use them more freely. The power transmitter is a highly integrated unit composed of only a few parts. Both the transmitter and the receiver are controlled with one microcontroller each and its proprietary firmware. This allows the easy adaptation of specific requirements. The entire system can be seen as an open concept with a very high engineering service, that ranges from the technology, to Design-In support and even complete solutions.

The evaluation kit is available at RRC power solutions and selected dealers. For further information please see our homepage at www.rrc-wireless-power.com.



Company profile of RRC power solutions GmbH

RRC power solutions, founded in 1989, is a leading company for high quality power supplies, battery charging technology, power packs, integrated system solutions and wireless power solutions for mobile and professional applications.

RRC develops, produces and delivers its electronic assemblies and products to leading original equipment manufacturers (OEMs) of notebooks, measuring instruments, medical devices, and military computer technology worldwide. OEMs integrate RRCs solutions into their own devices or sell them as accessories. RRC is a popular choice for the industry thanks to its trendsetting technology.

The company and its R&D center are based in Homburg/Saar. Branch offices are located in Paris, Los Angeles, Hong Kong, Shenzhen as well as representative offices worldwide.

RRC utilizes technology to drive new ideas, products and developments. Its research and development department creates the foundation for technological leadership.

In addition, RRC is certified according to DIN EN ISO 9001:2008 and DIN EN ISO 13485:2007 (manufacturer of medical devices).

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