

WattUp® Near Field Developer Kit

WATTUP®

Enabling Faster Integration of Energous' WattUp Wireless Charging Technology Into Customer Product Designs

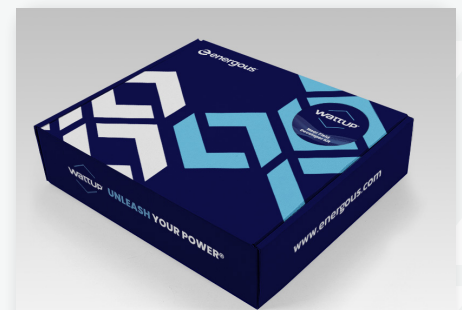
The WattUp developer kit for IoT and Trackers provides manufacturers with a robust set of tools and resources to enable faster integration of Energous' WattUp technology into future product designs.

The IoT/Trackers reference design transmitter incorporates the DA4100, DA3210 and DA14682 ICs. The DA4100 is a highly integrated System-on-Chip (SoC) RF transmitter IC, while the DA3210 is a high-power, high-efficiency power amplifier (PA) and the DA14682 is a Bluetooth low energy 5.0 System-on-Chip (SoC) with enhanced security and integrated FLASH memory.

On the receiver side, the DA2210 RF-to-DC receiver can be connected to up to four antennas and the DA14585 is a size-optimized, ultra-low power Bluetooth low energy SoC ideal for small form factor product designs. The complete chipset is available from Energous' manufacturing partner, Dialog Semiconductor.

Advantages

- Faster product integration
- Easier manufacturing of wirelessly charged products
- Small footprint to accommodate devices with various form factors, including those with curved edges and non-flat surfaces
- WattUp receiver detection
- Transmitter is available through authorized ODM partner

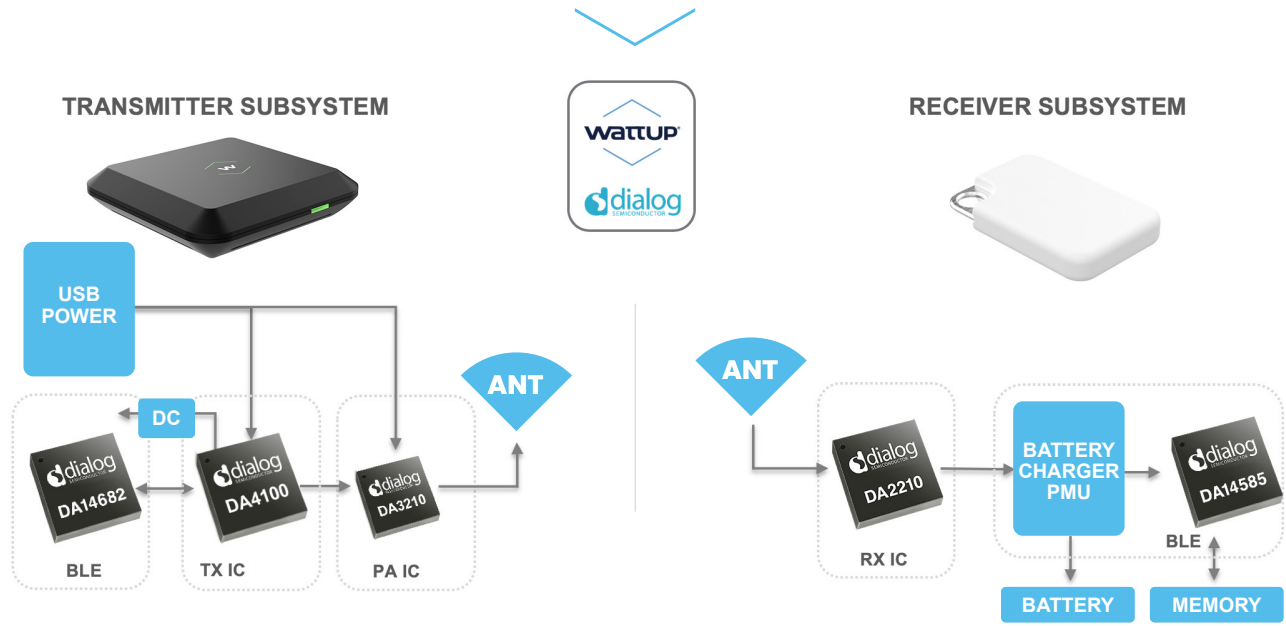


Kit Contents

- Reference Design Transmitter Hardware
- Reference Design Receiver Hardware
- Mobile App to monitor and control
- TX/RX
- TX/RX Schematics and Layout files
- TX/RX Antenna Design files
- TX/RX Mechanical files
- Firmware SDK



WattUp NF-230 Wireless Charging Developer Kit Block Diagram



Receiver Board

- Optimized for 40mA battery at 0.5C (20mA), higher-power charging available per use case
- DA2210 RX IC, DA14585 BLE and supporting circuitry
- Miniature rectifier circuit board design
- Multiple antenna system support
- App-based power measurement and control

Transmitter

- DA3210 Power Amplifier and DA4100 TX Controller
- Switched feeds for multiple antennas
- DA14682 BLE communication
- Debug Port on micro-USB connector

For more information or to order,
please contact: sales@energous.com

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