

# WattUp<sup>®</sup> Near Field Developer Kit

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## 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 EN4100 and EN3210. The EN4100 is a highly integrated System-on-Chip (SoC) RF transmitter IC, while the EN3210 is a high-power, high-efficiency power amplifier (PA).

On the receiver side, the EN2223 RF-to-DC receiver can be connected to up to four antennas.



### Kit Contents

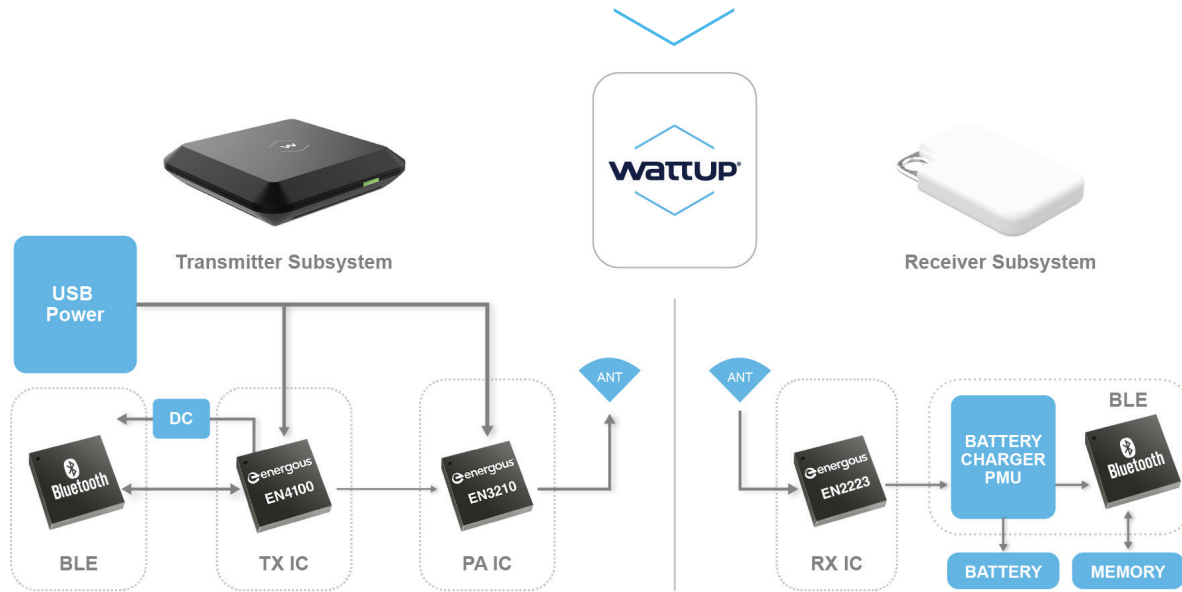
- Reference Design Transmitter Hardware
- Reference Design Receiver Hardware
- Mobile App to monitor and control
- TX/RX Schematics and Layout files
- TX/RX Mechanical files

### 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



# 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
- EN2210 RX IC with BLE and supporting circuitry
- Miniature rectifier circuit board design
- Multiple antenna system support
- App-based power measurement and control

## Transmitter

- EN3210 Power Amplifier and EN4100 TX Controller
- Split feeds for multiple antennas
- BLE communication

For more information or to order, please contact: [sales@energous.com](mailto:sales@energous.com)



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