



Designed for WPC's Qi Medium Power
(Under 15W) Specifications

Wireless Power Transmitter / Receiver ICs

BD57021MWV (Tx) / BD57031MWV (Rx)

Features

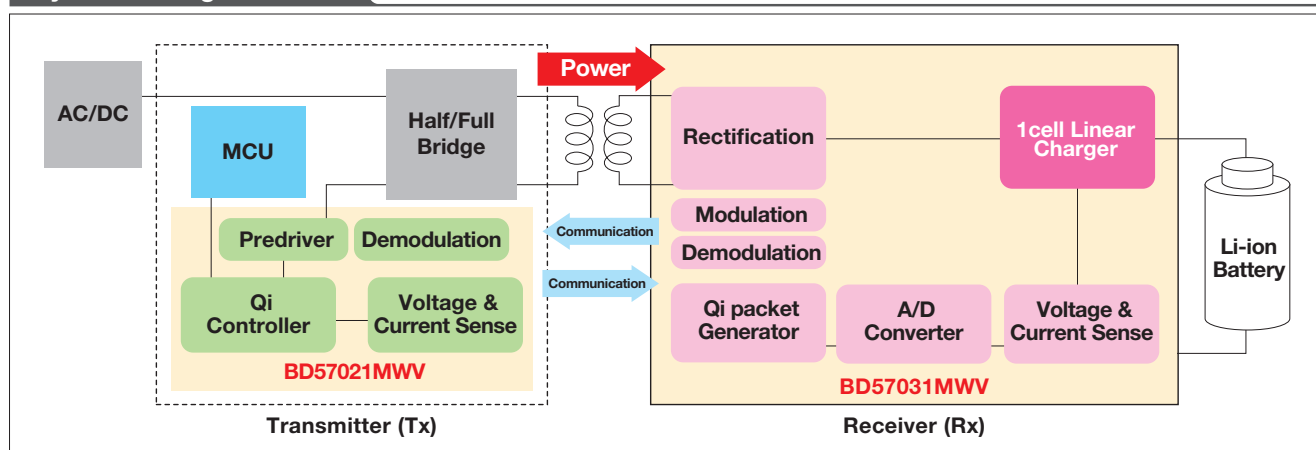
- Combine with a general-purpose microcontroller to configure a Qi-compliant transmitter (BD57021MWV)
- Integrated 8.7W linear charger (BD57031MWV)
- Interoperable with low power (< 5W) systems

Applications

- Smartphones
- Tablets
- Portable electronics



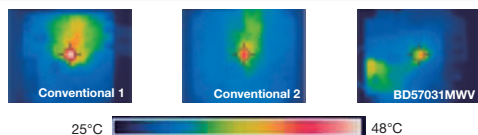
System Configuration



Temperature Rise Comparison

Low heat generation simplifies thermal design

Reduces temperature rise by approximately 57% compared with conventional products (0.8A load current)



Temperature rise comparison (from ambient temperature $T_a=25^\circ\text{C}$)

Load Current	Conventional 1	Conventional 2	BD57031MWV
0.6A	+16.4°C	+12.4°C	+7.3°C
0.8A	+21.1°C	+19.1°C	+12.1°C

Approximately 57% down

System Interoperability

Interoperable with the Qi Low Power standard (< 5W)

