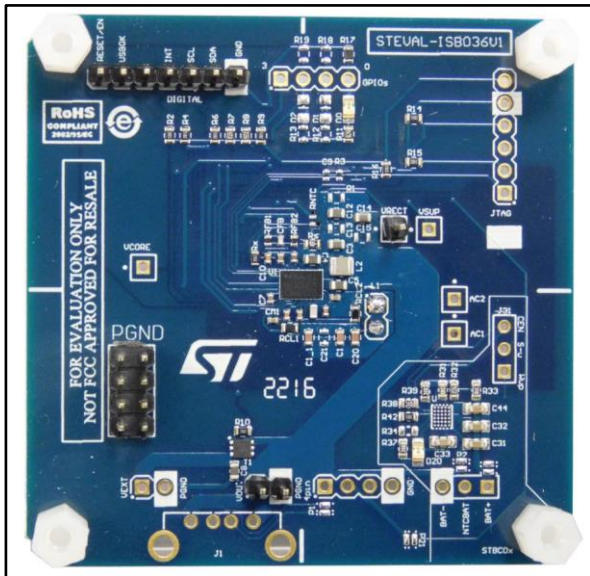


5 W dual mode Qi/PMA wireless power receiver based on STWLC03

Data brief



Features

- STWLC03 evaluation board with dual mode coil TDK WR424245-13K2-G
- STWLC03 wireless power receiver
- Up to 7.5 W output power
- 5 V output voltage
- Operates as voltage source
- Qi 1.1 and PMA SR1 certified
- Foreign object detection (FOD)
- I²C interface for communication with the host system
- Parameters and features adjustable in non-volatile memory
- RoHS compliant

Description

The STEVAL-ISB036V1 is a Qi 5 watt and PMA 7.5 watt wireless battery charger receiver evaluation board based on the STWLC03 wireless power receiver solution for the WPC/PMA mobile device with dual mode coil.

The solution is certified in accordance with the Low Power Qi v1.1 and PMA SR1 standards. The board layout is in a cost-effective 4-layer PCB design.

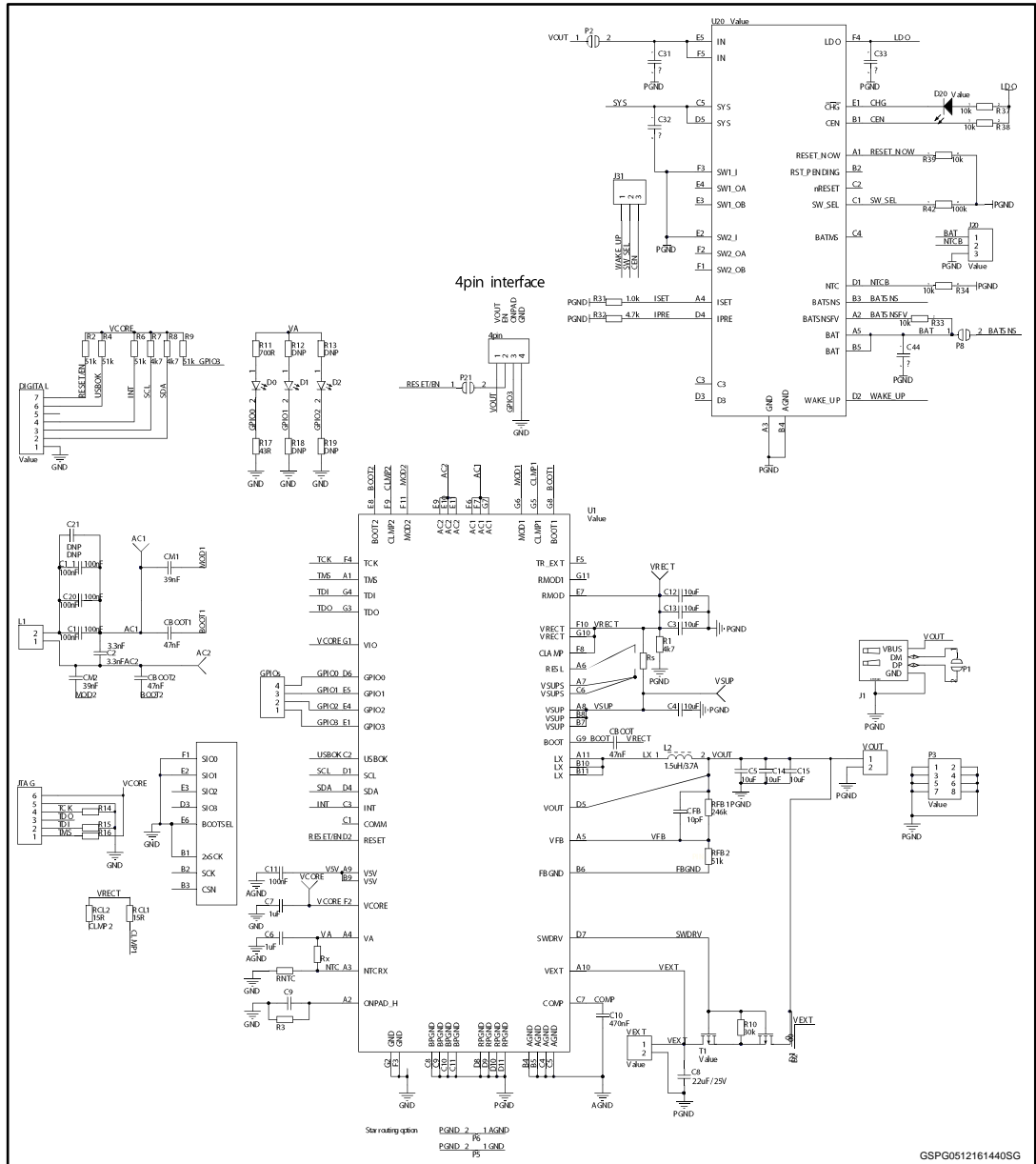
The device is powered by a dual mode RX coil attached to a 1.5 mm thick plastic fixture.

No additional tools are needed for the STEVAL-ISB036V1.

The embedded STWLC firmware lets you modify parameters and settings to ensure proper integration of the STWLC03 device with the final application (see the STWLC03 datasheet).

1 Schematic diagram

Figure 1: STEVAL-ISB036V1 circuit schematic



2 Revision history

Table 1: Document revision history

Date	Version	Changes
23-Dec-2016	1	Initial release.
14-Jul-2017	2	Updated title on the cover page.

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