STEVAL-ISB045V1



Data brief

2.5 W wireless charger transmitter evaluation kit





Features

- STWBC-WA digital controller
- 2.5 W output power
- Resistive and capacitive modulation
- Foreign object detection (FOD)
- Active presence detector
- Turn-key and firmware APIs
- Total reference design (IC, firmware, GUI and dongle)

Description

The STEVAL-ISB045V1 evaluation kit includes the STEVAL-ISB045V1T wireless battery charger transmitter evaluation board based on the STWBC-WA digital controller, the firmware and the STEVAL-WBCDNGV1 USB-to-UART dongle needed to use the STSW-STWBCGUI.

The STEVAL-ISB045V1 firmware offers you the flexibility of modifying LEDs or GPIO behavior and customizing I²C and UART signals.

The layout is based on cost-effective two-layer PCB.

Tools for the STEVAL-ISB045V1 evaluation kit are available on www.st.com and allow you to access run time information such as regulation error, frequency or protocol status.

| Summary table | | |
|---|-----------------|--|
| 2.5 W wireless charger transmitter evaluation kit | STEVAL-ISB045V1 | |
| Digital controller for wireless battery charger transmitters for wearable and smart watches applications | STWBC-WA | |
| Graphical user interface for wireless power transmitter evaluation boards based on the STWBC chip family | STSW-STWBCGUI | |

1 STEVAL-ISB045V1 schematic diagrams

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Figure 1. STEVAL-ISB045V1T circuit schematic (1 of 3)



Figure 2. STEVAL-ISB045V1T circuit schematic (2 of 3)







Figure 3. STEVAL-ISB045V1T circuit schematic (3 of 3)



Figure 4. STEVAL-WBCDNGV1 circuit schematic

Revision history

Table 1. Document revision history

| Date | Version | Changes |
|-------------|---------|--|
| 20-Feb-2018 | 1 | Initial release. |
| 18-Apr-2018 | 2 | Updated cover image. Added Figure 4. STEVAL- WBCDNGV1 circuit schematic. |

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