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 |
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>
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<tr>
<th>Date</th>
<th>Version</th>
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<tbody>
<tr>
<td>20-Feb-2018</td>
<td>1</td>
<td>Initial release.</td>
</tr>
<tr>
<td>18-Apr-2018</td>
<td>2</td>
<td>Updated cover image. Added Figure 4. STEVAL-WBCDNGV1 circuit schematic.</td>
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