



STMicroelectronics STSW-WLC38FWBPP Wireless Charger Receiver Evaluation Kit Instructions

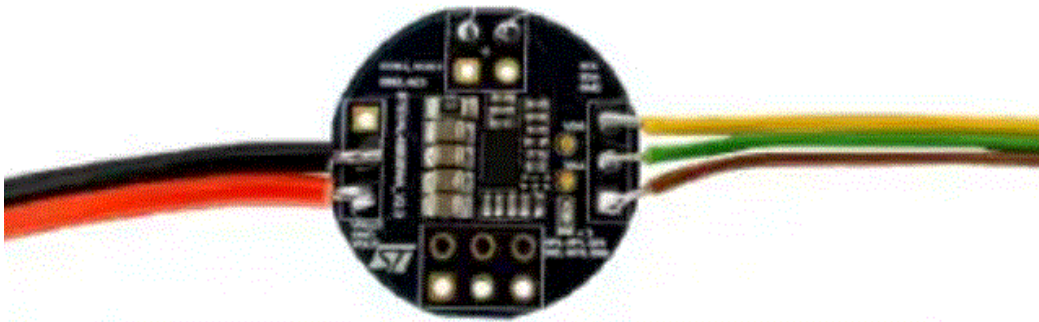
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STMicroelectronics STSW-WLC38FWBPP Wireless Charger Receiver Evaluation Kit



Product Information

The STSW-WLC38FWBPP is a firmware designed for the STDES-WLC38WA and STDES-WLC38TWS wireless charger receiver evaluation kit. It includes application middleware, hardware, host interface, and Qi protocol

library. The STWLC38JRM STDES-WLC38WA STDES-WLC38TWS is a Qi-compliant inductive wireless power receiver for up to 15W applications. It is a Qi-compatible wireless power receiver reference design for Qi 2.5W applications. Additionally, it comes with a GUI for developing applications using the STDES-WLC38WA evaluation board.

Product Usage Instructions

To use the STSW-WLC38FWBPP firmware, you will need the STDES-WLC38WA and STDES-WLC38TWS wireless charger receiver evaluation kit. Follow the steps below to use the product:

1. Ensure that the Qi-compatible wireless power receiver is connected to the evaluation board.
2. Connect the evaluation board to your computer using a USB cable.
3. Download and install the STSWWPSTUDIO GUI from the STMicroelectronics website.
4. Open the STSWWPSTUDIO GUI and select the STDES-WLC38WA evaluation board.
5. You can now develop applications using the GUI and test them using the wireless charger receiver evaluation kit.

For further information or assistance, please contact your local STMicroelectronics sales office.

Features

- Up to 2.5 W output power
- High efficiency (98% typical) synchronous rectifier operating up to 800 kHz
- Multilevel ASK modulator enhanced FSK demodulator
- Adaptive rectifier configuration (ARC) mode for enhanced spatial freedom
- 32 bit, 64 MHz Arm® Cortex® -M0+ core with 32kB RRAM, 16 KB SRAM
- On-chip thermal management and protections

Description

- The STSW-WLC38FWBPP firmware for STDES-WLC38WA and STDES-WLC38TWS board, offers the STWLC38 device functions based on the Qi standard.
- The firmware can be downloaded via I²C using the STSW-WPSTUDIO offering complete board monitoring.
- You can access and modify different configuration parameters, tailoring the operation of the device to the needs of custom applications.

Product Summary	
Firmware for STDES- WLC38WA and STDES-WLC38TWS wireless charger receiver evaluation kit	STSW- WLC38FWBPP
Qi-compatible wireless power receiver reference design for Qi 2.5W applications	STDES- WLC38WA/ STDES- WLC38TWS
Qi-compliant inductive wireless power receiver for up to 15 W applications	STWLC38JRM
GUI for developing applications using the STDES-WLC38WA evaluation board	STSW- WPSTUDIO
Applications	Wireless Chargers

Revision history

Table 1: Document revision history

Date	Revision	Changes
10-May-2023	1	Initial release.

IMPORTANT NOTICE

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Documents / Resources

	<p>STMicroelectronics STSW-WLC38FWBPP Wireless Charger Receiver Evaluation Kit [pdf] Instructions STDES-WLC38WA, STDES-WLC38TWS, STSW-WLC38FWBPP Wireless Charger Receiver Evaluation Kit, Wireless Charger Receiver Evaluation Kit, Charger Receiver Evaluation Kit, Receiver Evaluation Kit, Evaluation Kit</p>
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References

-  [STMicroelectronics: Our technology starts with you](#)
-  [STDES-WLC38TWS - Qi-compatible wireless power receiver reference design for Qi 2.5W application - STMicroelectronics](#)
-  [STDES-WLC38WA - Qi-compatible wireless power receiver reference design for Qi 2.5 W applications - STMicroelectronics](#)
-  [STSW-WLC38FWBPP - Firmware for STDES-WLC38WA and STDES-WLC38TWS wireless charger receiver evaluation kit - STMicroelectronics](#)
-  [STSW-WPSTUDIO - Graphical user interface for wireless power receiver and transmitter evaluation boards - STMicroelectronics](#)
-  [STWLC38 - Qi-compliant inductive wireless charger power receiver for up to 15W applications - STMicroelectronics](#)
-  [STMicroelectronics Trademark List - STMicroelectronics](#)
-  [Wireless Chargers - STMicroelectronics](#)