Features

- Supports up to 15 W receiver design
- Qi 1.3 compliant
- Integrated
  - High efficiency synchronous rectifier
  - Low voltage drop regulator with output current limit and input voltage control
- Output 5 V baseline power profile, 9 V extended power profile
- Adaptive rectifier configuration (ARC) mode for enhanced spatial freedom
- Accurate voltage/current measurement for foreign object detection (FOD)
- On-chip thermal management and protections

Description

The STEVAL-WLC38RX is an evaluation board based on the STWLC38 and designed for wireless power receiver application.

The evaluation board allows its user to quickly start their 5W Qi-BPP and 15W Qi-EPP compatible wireless charging receiver projects.

Through the I²C interface the user can access and modify different configuration parameters, and hence tailor the operation of the device to the needs of custom applications.

Using an on-board USB-to-I²C bridge, the user can monitor and control the STWLC38 using the STSW-WPSTUDIO graphical user interface (GUI).
Figure 1. STEVAL-WLC38RX circuit schematic
2 Board versions

Table 1. STEVAL-WLC38RX versions

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<td>STEVAL$WLC38RXA (1)</td>
<td>STEVAL$WLC38RXA schematic diagrams</td>
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1. *This code identifies the STEVAL-WLC38RX evaluation board first version.*
## Revision history

*Table 2. Document revision history*

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<td>20-Jul-2023</td>
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<td>Initial release.</td>
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