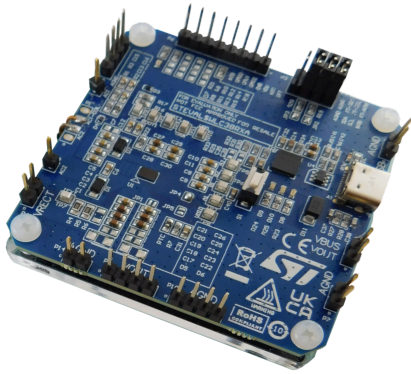


## Wireless power receiver evaluation board for Qi BPP/EPP applications



### 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.

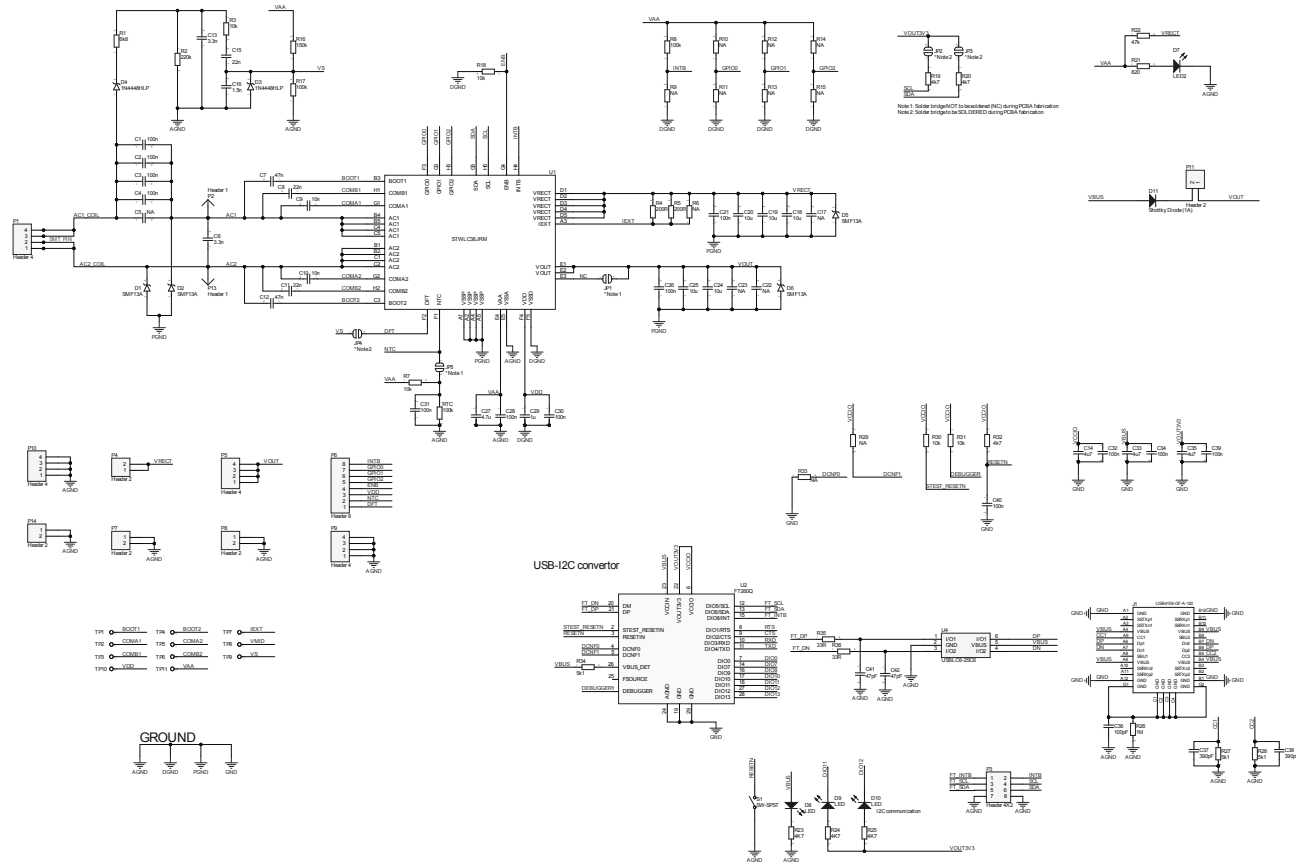
Through the I<sup>2</sup>C interface the user can access and modify different configuration parameters, and hence tailor the operation of the device to the needs of custom applications.

Using an on-board USB-to-I<sup>2</sup>C bridge, the user can monitor and control the [STWLC38](#) using the [STSW-WPSTUDIO](#) graphical user interface (GUI).

Product summary	
Wireless power receiver evaluation board for Qi BPP/EPP applications	<a href="#">STEVAL-WLC38RX</a>
Qi-compliant inductive wireless charger power receiver for up to 15W applications	<a href="#">STWLC38JRM</a>
Firmware for wireless power receiver evaluation board	<a href="#">STSW-WLC38FWEPP</a>
Graphical user interface for wireless power receiver and transmitter evaluation boards	<a href="#">STSW-WPSTUDIO</a>
Applications	<a href="#">Wireless chargers</a>

# 1 Schematic diagrams

Figure 1. STEVAL-WLC38RX circuit schematic



## 2 Board versions

Table 1. STEVAL-WLC38RX versions

Finished good	Schematic diagrams	Bill of materials
STEVAL\$WLC38RXA <sup>(1)</sup>	STEVAL\$WLC38RXA schematic diagrams	STEVAL\$WLC38RXA bill of materials

1. This code identifies the STEVAL-WLC38RX evaluation board first version.

## Revision history

Table 2. Document revision history

Date	Revision	Changes
20-Jul-2023	1	Initial release.

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