

## Antenna matching tool for ST25R39xx/39xxB devices

Data brief

### Features

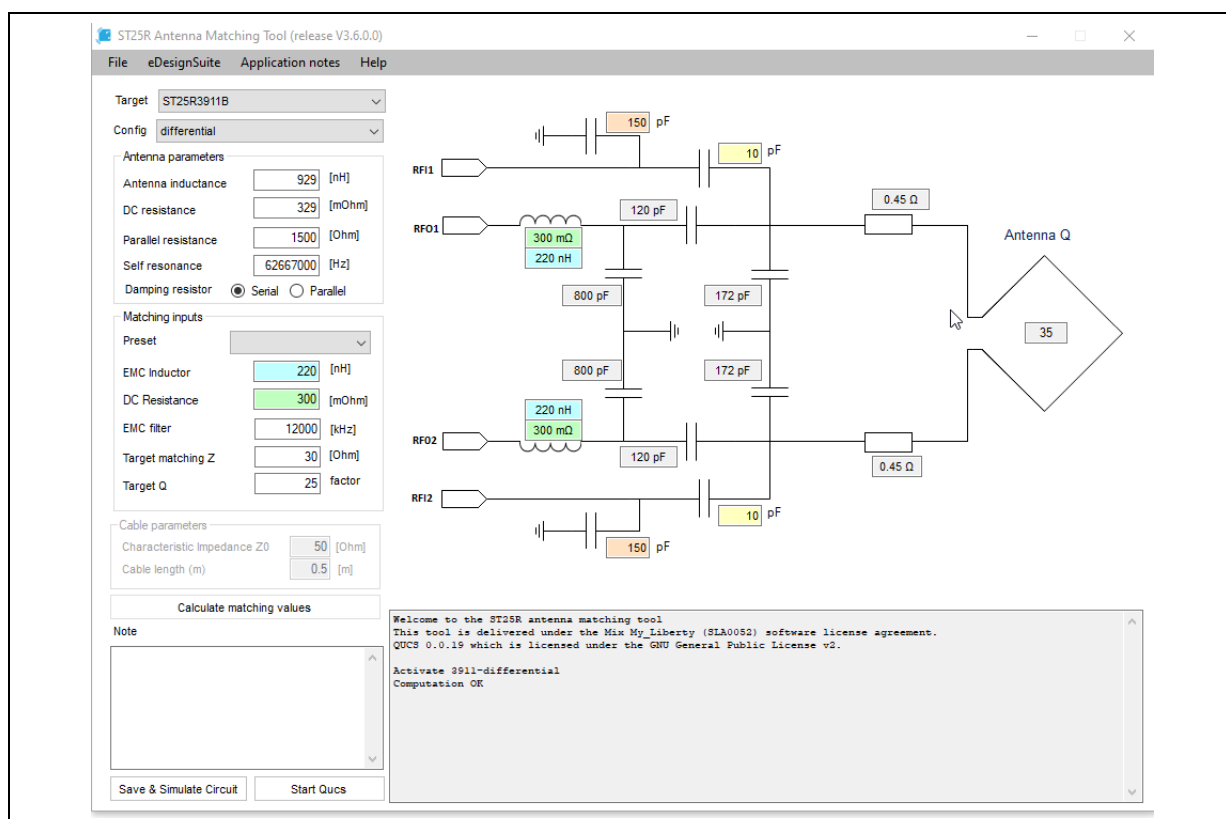
- STSW-ST25R004 is a software that calculates the matching network for antennas connected to ST25R39xx/39xxB devices, using Qucs (Quite Universal Circuit Simulator) to simulate the antenna and the matching network characteristics.
- The software supports the following products:
  - ST25R3911B
  - ST25R3912
  - ST25R3914
  - ST25R3915
  - ST25R3916 / ST25R3916B
  - ST25R3917 / ST25R3917B
  - ST25R3918
  - ST25R3920 / ST25R3920B

### Description

STSW-ST25R004 contains a graphical user interface (GUI) to specify the antenna parameters and the target matching. It performs transient, AC, and S-parameter simulations of the calculated antenna schematic.

An online version of the tool is available at <https://eds.st.com>. This is part of the ST eDesignSuite, an easy-to-use comprehensive software helping customers during their design.

AN4974 and AN5276 (available on [www.st.com](http://www.st.com)) provide guidance on the measurement of the antenna parameters required as input for this matching tool. With these inputs the best matching circuit can be defined.



# 1 License

STSW-ST25R004 is delivered under the Mix My\_Liberty (SLA0052) software license agreement.

The software components provided in this package come with different license schemes, as shown in [Table 1](#).

**Table 1. License scheme**

Software component	Owner	License
ST25R Antenna Matching Tool binary	STMicroelectronics	ST proprietary
Qucs	Qucs team	GPL v2

## 2 Revision history

Table 2. Document revision history

Date	Revision	Changes
05-Jul-2017	1	Initial release.
19-Feb-2020	2	Updated document title, <i>Features</i> and <i>Description</i> . Added image on cover page and <i>Section 1: License</i> .
01-Jun-2021	3	Updated <i>Features</i> and <i>Description</i> .
24-Jun-2021	4	Updated <i>Description</i> .
03-May-2022	5	Updated document title, <i>Features</i> and image on cover page.

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