

## Compact reference design kit for robotics and automation



### Features

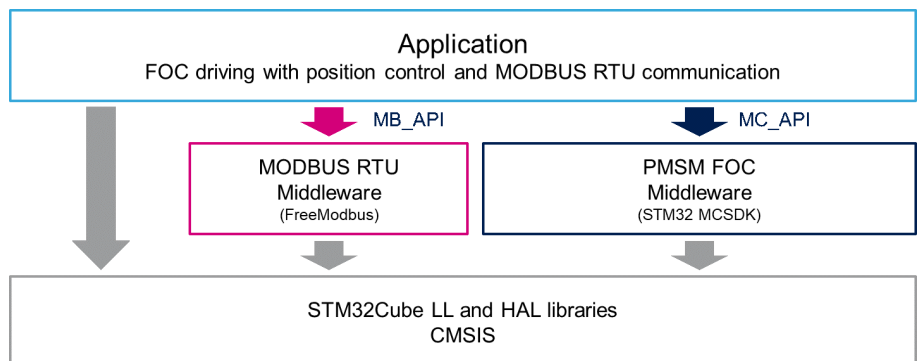
- Based on MotorControl SDK 5.4.3
- Position control via encoder feedback
- MODBUS RTU communication
- Project example for the following toolchains:
  - IAR Embedded Workbench
  - KEIL-ARM  $\mu$ Vision
  - STM32CubeIDE

### Description

The **STSW-ROBOT-1** is the firmware example of the **EVALKIT-ROBOT-1** evaluation kit.

This firmware offers positioning control based on the Field Oriented Control library and interfacing through RS485 according to the MODBUS RTU protocol.

**Product status link**  
STSW-ROBOT-1



## Revision history

**Table 1. Document revision history**

Date	Version	Changes
9-Mar-2020	1	Initial release.



## Contents

Revision history .....	2
Contents .....	3

**IMPORTANT NOTICE – PLEASE READ CAREFULLY**

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, please refer to [www.st.com/trademarks](http://www.st.com/trademarks). All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2020 STMicroelectronics – All rights reserved