

Firmware for STEVAL-DIGAFEV1 evaluation kit

User interfaces and utilities	STSW-DIGAFEV1GUI	
Hardware Abstraction	STSW-DIGAFEV1FW	
Hardware	TSC1641	STEVAL-DIGAFEV1
	NUCLEO-H503RB	

Features

- Running on STM32H503RB
- FW to be used only with STSW-DIGAFEV1GUI

Description

The [STSW-DIGAFEV1FW](#) firmware implementation is based on the [STM32H503RB](#) microcontroller.

The firmware has been designed for the [STEVAL-DIGAFEV1](#) evaluation kit to demonstrate the [TSC1641](#) features.

The [STSW-DIGAFEV1FW](#) implements the bridge feature between the [TSC1641](#) device and the [STSW-DIGAFEV1GUI](#) SW, running on a PC.

Product summary	
Software for STEVAL-DIGAFEV1 evaluation kit, running on NUCLEO-H503RB	STSW-DIGAFEV1FW
Software for STEVAL-DIGAFEV1 evaluation kit for TSC1641 configuration	STSW-DIGAFEV1GUI
Evaluation board for the TSC1641, 16-bit, high precision current and power monitor with MIPI I3C / I2C interface	STEVAL-DIGAFEV1
60V, 16-bit, High precision, I3C/ I2C, digital current/voltage/ power/ temperature Monitor	TSC1641
Applications	Industrial battery packs Telecom equipment Power inverters Data Center

Revision history

Table 1. Document revision history

Date	Revision	Changes
03-Aug-2023	1	Initial release.
06-Jun-2024	2	Updated Description.

IMPORTANT NOTICE – 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 acknowledgment.

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, refer to 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.

© 2024 STMicroelectronics – All rights reserved