

## STSPIN Studio: Motor driver evaluation tool



### Features

- Installation of the tool without admin right
- Control interface for STSPIN devices
- Easy to use and intuitive interface
- Stepper and Brush DC motor
- Integrated help for each board
- Based on Nucleo environment
- On-line update
- Offline installation of expansion packages



#### Product status link

[STSW-STSPIN01](#)

#### Product summary

ST-LINK, ST-LINK/V2, ST-LINK/V2-1, STLINK-V3 boards firmware upgrade	<a href="#">STSW-LINK007</a>
ST-LINK, ST-LINK/V2, ST-LINK/V2-1 USB driver signed for Windows7, Windows8, Windows10	<a href="#">STSW-LINK009</a>

### Description

The STSPIN Studio is a software for the evaluation of the STSPIN family devices.

For each device it is possible to refer to an integrated help file.

Through an intuitive GUI the user can control a stepper or a DC motor and display some useful parameters such as speed, position, and device status.

It is possible to set the parameters of the device to better control the performance of the motor. STSPIN Studio manages the on-line updating, allowing the user to easily download the last version of firmware for each evaluation board. Otherwise, the user can install an expansion package offline.

STSPIN Studio is based on STM32 Nucleo board development platform, that is used to quickly evaluate and start a development with the expansion board of STSPIN device family.

## 1 Supported boards

The STSPIN Studio software is designed to work with an STSPIN evaluation board connected with an STM32 Nucleo development board.

**Table 1. Supported boards**

Development board	Description
NUCLEO-F401RE	STM32 Nucleo-64 development board with STM32F401RE MCU, supports Arduino and ST morpho connectivity
Evaluation board	Description
X-NUCLEO-IHM06A1	Low voltage stepper motor driver expansion board based on the STSPIN220 for STM32 Nucleo
X-NUCLEO-IHM12A1	Low voltage dual brush DC motor driver expansion board based on STSPIN240 for STM32 Nucleo
X-NUCLEO-IHM14A1	Stepper motor driver expansion board based on STSPIN820 for STM32 Nucleo
X-NUCLEO-IHM15A1	Dual brush DC motor driver expansion board based on STSPIN840 for STM32 Nucleo
X-NUCLEO-IHM03A1	High power stepper motor driver expansion board based on powerSTEP01 for STM32 Nucleo
X-NUCLEO-IHM04A1	Dual brush DC motor driver expansion board based on L6206 for STM32 Nucleo
X-NUCLEO-IHM05A1	Bipolar stepper motor driver expansion board based on the L6208 for STM32 Nucleo
EVL62XX-MAIN EVL6205-PLUG EVL6225-PLUG EVL6206-PLUG EVL6226-PLUG EVL6207-PLUG EVL6227-PLUG EVL6208-PLUG EVL6228-PLUG	Evaluation kit environment for L62xx family of dual brush DC and stepper motor drivers based on STM32 Nucleo
EVSPIN948	Dual brushed DC motor driver expansion board based on STSPIN948
EVSPIN958	Single brushed DC motor driver expansion board based on STSPIN958
EVL6470	Stepper motor driver evaluation board based on the L6470
EVL6472	Stepper motor driver evaluation board based on the L6472
EVL6480	Stepper motor driver evaluation board based on the L6480
EVL6482	Stepper motor driver evaluation board based on the L6482

## Revision history

**Table 2. Document revision history**

Date	Version	Changes
16-Jan-2020	1	Initial release.
29-Sep-2022	2	Updated <a href="#">Table 1</a> .
25-Oct-2023	3	Added sub-brand in cover page, updated <a href="#">Table 1</a> .
12-Dec-2023	4	Updated <a href="#">Table 1</a> .
17-Jun-2024	5	Updated <a href="#">Table 1</a> .

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