

STSPIN Studio: Motor driver evaluation tool



Features

- Control interface for STSPIN devices
- Easy to use and intuitive interface
- Stepper and Brush DC motor
- Based on Nucleo environment
- On-line update

Description

The STSPIN Studio is a software for the evaluation of the STSPIN family devices. Through an intuitive GUI the user can control a stepper or a DC motor and display some useful parameters such as speed or position.

It can also set parameters to better control the performance of the motor. STSPIN Studio also manage the on-line updating, allowing the user to easily download the last version of firmware for each device.

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

Product status link

[STSW-STSPIN01](#)

Product summary

| | |
|---|------------------------------|
| ST-LINK, ST-LINK/V2, ST-LINK/V2-1, STLINK-V3 boards firmware upgrade | STSW-LINK007 |
| ST-LINK, ST-LINK/V2, ST-LINK/V2-1 USB driver signed for Windows7, Windows8, Windows10 | STSW-LINK009 |

1 Supported boards

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

| 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 |

Revision history

Table 1. Document revision history

| Date | Version | Changes |
|-------------|---------|-----------------|
| 16-Jan-2020 | 1 | Initial release |

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