

## Motor Control news from STMicroelectronics

### [Low-voltage 3-phase BLDC motor driver features standby consumption down to 80 nA](#)

The STSPIN230 motor driver integrates control logic and a triple half-bridge low  $R_{DS(on)}$  power stage in a small 3x3 mm QFN package. It operates from an input voltage as low as 1.8 V, over a wide current and temperature range, making it ideal for battery-operated, portable applications. It can be forced into a zero consumption state – with quiescent current down to 80 nA – which allows significant power saving and makes the IC ideal for extended battery lifetime. [Read more](#)



### [Affordable, easy-to-use solution for portable motor driving applications](#)

The X-NUCLEO-IHM11M1 is a low-voltage 3-phase brushless DC motor driver expansion board for STM32 Nucleo based on the STSPIN230. It provides an affordable and easy-to-use solution for the implementation of portable motor driving applications such as thermal printers, robotics and toys. The X-NUCLEO-IHM11M1 is compatible with the Arduino UNO R3 connector and most STM32 Nucleo boards. The board is designed for 6-step and FOC algorithms. [Read more](#)



### [Spin your low-voltage stepper motor in minutes](#)

The X-NUCLEO-IHM06A1 is an STM32 ODE expansion board based on the STSPIN220, a monolithic low-voltage driver for low-voltage stepper motors. It lets you instantly add high-precision, low torque, ripple motion control capability to your battery-operated STM32 ODE project – such as small robots and toys – thanks to its 1/256 step resolution. Together with the free X-CUBE-SPN6 expansion software, the X-NUCLEO-IHM06A1 will let you spin your design in just minutes. [Read more](#)



### [Industry's first 800V surface-mount SCR increases SMD converter power switching](#)

The TM8050H-8D3 is the latest addition to ST's thyristor power range. Housed in the high-voltage D<sup>3</sup> PAK, this 80A, 800V robust SCR enables extremely reliable and compact switching systems for motorbike voltage regulators, induction motors or soft starters, industrial heaters or cooker controls, solid-state relays, UPS and AC-line conditioners, while reducing PCB and heatsink sizes. It ensures high energy efficiency under all operating conditions up to 150 °C, and is also available in a TO-247 package version. [Read more](#)



## Recent blog posts

### [New Board Makes it Easy to Spin Your Motor](#)

Following the recent post on ST's latest low-voltage motor drivers, we now have a new video that shows how to use the STM32 Open Development Environment to drive the STSPIN220 low-voltage stepper motor driver on its X-NUCLEO-IHM06A1 expansion board. This provides an incredibly easy and low-cost way to evaluate the possibilities of the STSPIN220 and prototype a system in no time. [Watch now](#)



### [World Record: STSPIN, the Smallest Single Chip Motor Driver, Still With Even More Features](#)

ST recently broke the record for the world's tiniest single chip motor driver by shrinking the packaging of three of its chips to 3 x 3 mm. Aside from the amazing fact that this means the components are shorter than a grain of rice, it opens the door to smaller and lower-consumption designs. The three full-featured motor drivers belong to the STSPIN family of products. [Read more](#)

