

New Product Announcement

Mouser Now Offering STMicroelectronics' Tiny STSPIN Single-Chip Low-Voltage Motor Drivers

July 20, 2016 – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking [STSPIN](#) low voltage motor drivers from [STMicroelectronics](#) (ST). At just 3mm × 3mm, the new low voltage STSPIN ICs are the world's smallest full-featured single-chip motor drivers, designed to control motors in devices like portable [medical](#) pumps, miniature [robots](#), [surveillance](#) equipment, and precision [tools](#).

[ST's STSPIN](#) low voltage motor drivers, available from Mouser Electronics, integrate all the functionalities to enable product designers to deliver compact, lightweight, and user-friendly innovations to their target markets. The series comprises the STSPIN220 stepper-motor driver with position resolution of 256 microsteps per step, STSPIN230 3-phase brushless-motor (BLDC) driver, and STSPIN240 with two complete on-chip MOSFET bridges for driving two brushed DC motors. The power stage of each device features efficient integrated MOSFETs that minimize energy loss and heat dissipation. In addition, all devices benefit from comprehensive built-in protection features including over-current, over-temperature, and short-circuit protection. These ensure ruggedness and reliability, even in harsh industrial environments, without additional components thereby further reducing cost and complexity.

The drivers operate from a supply voltage as low as 1.8V and support power-saving design with ultra-low standby current of less than 80nA for a zero-power state when the motor is inactive, as well as a powerful supply current of up to 1.3A_{RMS} to drive a motor in a wide range of applications. The combination of low power consumption, small form factor, and high performance of ST's new motor drivers is ideal for battery-powered [Internet of Things](#) (IoT) devices. Designers can easily evaluate the STSPIN220 motor driver in combination with an [STM32](#) 32-bit ARM® Cortex®-M core microcontroller as well as [STM32 Nucleo](#) development and the [X-NUCLEO-IHM06A1 expansion board](#) in an open, flexible and affordable development environment to enable fast prototyping that can quickly be transformed into final designs.

To learn more, visit <http://www.mouser.com/new/stmicroelectronics/stmicroelectronics-stspin-drivers/>.

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 22 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 600 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 500,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

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