

New Product Announcement

Build Drone Flight-Control Designs with STMicroelectronics' FCU Eval Board, Now at Mouser

December 11, 2017 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the [STMicroelectronics](http://www.st.com) (ST) [STEVAL-FCU001V1](http://www.st.com) evaluation board, a compact flight-controller unit (FCU) suitable for small- and medium-sized quadcopter drone designs. Scalable and efficient with sample firmware to accelerate development, the FCU helps quadcopter designers evaluate the performance of inertial measurement unit sensors during real flight conditions.

The [ST STEVAL-FCU001V1](http://www.st.com) evaluation board, available from Mouser Electronics, incorporates an [STM32F401](http://www.st.com) 32-bit microcontroller with Arm® Cortex®-M4 core, an SPBTLE-RF0 module with *Bluetooth*® low energy 4.1 connectivity, and an STC4054 800mA lithium-ion/lithium polymer battery-charger chip. Designers can use a smartphone or tablet to control the board through the Bluetooth connection or can connect a radio frequency (RF) receiver to the board's PWM inputs to interface with a standard RF remote controller.

The board also includes ST's [LSM6DSL](http://www.st.com) iNEMO inertial module with low-power digital accelerometer and gyroscope, its [LIS2MDL](http://www.st.com) high-performance magnetometer, and its [LPS22HD](http://www.st.com) MEMS pressure sensor to support 3D navigation applications. Designers can drive four brushed DC motors through the onboard [STL6N3LLH6](http://www.st.com) STripFET H6 Power MOSFETs or brushless DC (BLDC) motors through an electronic speed-control unit. In addition, the board offers SWD, I²C and USART interfaces that allow for firmware development and debugging as well as support for additional external sensors or RF modules.

To learn more, visit www.mouser.com/stm-steval-fcu001v1-board.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

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