

## New Product Announcement

### STMicroelectronics High-Speed Ultrasound Pulser Available Now at Mouser Electronics

**August 12, 2014** – [Mouser Electronics](http://www.mouser.com), Inc., is now shipping the [STHV800 High Speed Ultrasound Pulser](#) from [STMicroelectronics](http://www.st.com). The STHV800 can operate at frequencies up to 20MHz and targets [medical ultrasound transducer applications](#), as well as other piezoelectric, capacitive, and MEMS transducer applications.

The [STMicroelectronics STHV800 High Speed Ultrasound Pulser](#), available from Mouser Electronics, is an eight-channel high-density ultrasound transmitter with two independent half-bridges per channel. The device includes a controller logic interface that is compatible with both 1.8V and 3.3V input logic levels and includes level translators, MOSFET gate drivers, and noise blocking diodes.

High power P-channel and N-channel MOSFETs serve as the output stage for each of the eight channels. These MOSFETs are capable of providing more than 2A of peak output current. In addition, the STHV800 includes self-biasing circuitry which allows for [very low power consumption](#) during the receive phase, as low as 200µW total power dissipation. A dedicated thermal pin is used to provide thermal shutdown block sensing. One of the main benefits of the STHV800 is that it requires very few external components, requiring only decoupling capacitors on the high voltage and low voltage supplies, and a resistor to pull up the thermal shutdown block sensing (THSD) pin.

Applications for the STHV800 include [medical ultrasound imaging](#), pulse waveform generator, NDT ultrasound transmission, piezoelectric transducer drivers, and [MEMS transducer applications](#).

To learn more, visit:

<http://www.mouser.com/new/stmicroelectronics/stmicro-sthv800-ultrasound-pulser/> .

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### **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 500 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 400,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://www.mouser.com>.

### **About STMicroelectronics**

STMicroelectronics is a global independent semiconductor company and a leader in developing and delivering semiconductor solutions across the spectrum of microelectronics applications. An unrivaled combination of silicon and system expertise, manufacturing strength, Intellectual Property (IP) portfolio, and strategic partners positions, STMicroelectronics is at the forefront of System-on-Chip (SoC) technology and its products play a key role in enabling today's convergence trends.

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