



New Product Announcement

TI's GaN Modules, Available from Mouser, Deliver Compact, High-Density Solutions for High-Performance Applications

December 5, 2018 – [Mouser Electronics](#), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, stocks the full line of [gallium arsenide \(GaN\) modules](#) from [Texas Instruments](#) (TI).

TI's GaN controllers, regulators, and drivers deliver reduced power with end-to-end [power conversion](#) and 5 MHz switching frequencies for high-performance applications such as electric [motor design](#), augmented reality, LiDAR, and high-density industrial and commercial [power supplies](#). The devices integrate high-speed gate drivers, electromagnetic interference (EMI) control, and over-temperature and overcurrent protection with an optimized layout to minimize parasitic inductance, maximize dv/dt immunity (CMTI), and reduce board space.

The [LMG1020](#) is a single, low-side driver designed for driving GaN FETs and logic-level MOSFETs in high-speed applications. The design simplicity of the LMG1020 enables extremely fast propagation delays of 2.5 ns and minimum pulse width of 1 ns. The [LMG5200](#) 80 V GaN half-bridge power stage provides an integrated power stage solution consisting of two 80 V GaN FETs driven by one high-frequency GaN FET driver in a half-bridge configuration. The [LMG3410R070](#) 600 V 70 mΩ GaN power stage boasts ultra-low input and output capacitance and supports higher currents, temperatures, voltages, and switching frequencies than silicon transistors, while reducing switching losses by up to 80 percent.

Mouser also stocks a variety of evaluation modules for TI GaN products. The [LMG1210EVM-012](#) evaluates the switching performance of the LMG1210 300 V half-bridge driver for GaN FETs. The small, easy-to-use power stage features an external PWM signal and can be configured as a buck converter, boost converter, or other converter topology using a half bridge. The [LMG1020EVM-006](#) demonstrates nanosecond laser pulses for high-resolution LiDAR and time-of-flight (ToF) systems using an onboard LMG1020 low-side driver.

The LMG5200 80 V GaN half-bridge power stage is supported by the [LMG5200EVM-02](#) evaluation module. Engineers can use the LMG5200EVM to evaluate the performance of the LMG5200 as a hard-switched converter to sample measurements such as efficiency, switching speed and dv/dt. Also supporting the LMG5200 module, the [BOOSTXL-3PHGANINV](#) evaluation module offers a TI BoosterPack™-compatible interface to connect to a TI C2000™ MCU [LaunchPad](#)™ development kit.

To learn more about TI GaN modules available from Mouser, visit www.mouser.com/ti-gan-modules.

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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