

## New Product Announcement

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

**December 5, 2018** – [Mouser Electronics](http://www.mouser.com), 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](http://www.ti.com) (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](http://www.mouser.com/ti-gan-modules).

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### **About Mouser Electronics**

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