



New Product Announcement

Texas Instruments' LMG1020 Low-Side GaN Driver, Ideal for High-Speed LiDAR and TOF Applications, Now Shipping from Mouser

September 6, 2018 – [Mouser Electronics](#), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [LMG1020](#) gallium nitride (GaN) driver from [Texas Instruments](#). The single, low-side driver enables efficient, high-performance designs in speed-critical applications such as LiDAR, time-of-flight laser drivers, facial [recognition](#), augmented reality, and class E [wireless chargers](#).

The [Texas Instruments LMG1020](#) low-side GaN driver, available from Mouser Electronics, drives GaN FETs and logic-level MOSFETs, enabling propagation delays of just 2.5 nanoseconds and minimum pulse width of 1 nanosecond. The device's drive strength is independently adjustable for pull-up and pull-down edges by connecting external resistors between the gate and OUTH and OUTL, respectively. The robust LMG1020 driver features over-temperature protection and under-voltage lockout to guard against overload and fault conditions, plus common-mode transient immunity of more than 300V/ns, delivering industry-leading system-noise immunity.

The LMG1020 is housed in a 0.8 mm x 1.2 mm WLCSP package, which minimizes gate loop inductance and maximizes power density in high-frequency applications. The minuscule size allows designers to reduce component count and decrease power supply size by up to 80 percent. The LMG1020 driver features an adjustable dead-time control feature to provide improved efficiency for applications such as DC-DC converters, Class D [audio](#) amplifiers, and [motor drives](#).

To learn more, visit www.mouser.com/ti-lmg1020-gan-driver.

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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