

New Product Announcement

TI's LMG3410R070 GaN Power Stage, Now at Mouser, Supports High-Density Needs of Powerful New Electric Motors

November 8, 2018 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the [LMG3410R070](https://www.ti.com/product/lmg3410r070) 600 V 70 mΩ gallium nitride (GaN) power stage from [Texas Instruments](http://www.ti.com) (TI). Boasting ultra-low input and output capacitance, the LMG3410R070 supports new requirements for high-power-density electric motor applications, including [industrial](#) and consumer [power supplies](#). The high-performance GaN power stage supports higher currents, temperatures, voltages, and switching frequencies than silicon transistors, while reducing switching losses by up to 80 percent.

The [TI LMG3410R070](https://www.ti.com/product/lmg3410r070) GaN power stage, available from Mouser Electronics, features an integrated gate driver and robust protection to offer [improved performance](#) compared with silicon MOSFETs and insulated-gate bipolar transistors (IGBTs). The device delivers zero common source inductance, a user-adjustable slew rate of 25 to 100 V/ns, and a 20 ns propagation delay for MHz operation. The robust IC features over-current protection with greater than 150 V/ns slew rate immunity, over-temperature protection, and transient over-voltage immunity, as well as overvoltage lockout protection on all supply rails. Housed in a compact, 8 mm × 8 mm QFN package, the LMG3410R070 power stage requires no external protection components, allowing for simplified design and layout processes.

The powerful LMG3410R070 is well suited for performance with the [KC-LINK](#) surface mount capacitors from [KEMET Electronics](http://www.kemet.com). Designed to meet the demands of fast-switching semiconductors like the TI LMG3410R070 IC, the KC-LINK capacitors feature extremely low effective series resistance and thermal resistance, allowing the devices to withstand the stress of high-frequency, [high-voltage](#) DC link applications.

The superior power density offered by the TI LMG3410R070 power stage enables efficient topologies like the totem-pole PFC, delivering a power supply-size reduction of up to 50 percent. The LMG3410R070 IC is ideal for applications including multi-level converters, solar inverters, high voltage battery chargers, and uninterruptible power supplies.

For more on how TI's LMG3410R070 GaN power stage and KEMET KC-LINK capacitors combine to maximize a GaN power solution, visit eng.info.mouser.com/kemet-ti-gan-solutions.

To learn more about the TI LMG3410R070 power stage, visit www.mouser.com/ti-lmg3410r070-gan-power-stage.

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