

New Product Announcement

Infineon's CoolGaN HEMTs, Now Available at Mouser, Enable Efficient High-Speed Switching in Compact System Designs

January 24, 2019 – [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, is now stocking the [CoolGaN™](#) gallium nitride (GaN) HEMTs from [Infineon Technologies](http://www.infineon.com). Featuring high efficiency and power density, the CoolGaN high-electron-mobility transistors (HEMTs) facilitate high-speed switching in semiconductor [power supplies](#). Suitable for both hard- and soft-switching topologies, the CoolGaN HEMTs are ideal for applications such as [wireless charging](#), switched mode power supply (SMPS), [telecommunications](#), hyperscale data centers, and servers.

The [Infineon CoolGaN](#) HEMTs, available from Mouser Electronics, offer exceptional quality when compared with silicon switching devices. The CoolGaN HEMTs offer 10 times' lower output charge and gate charge compared to silicon transistors, as well as ten times' higher breakdown field and double the mobility. Optimized for turn-on and turn-off, the devices feature new topologies and current modulation to deliver innovative switching solutions. The HEMTs' surface-mount packaging ensures that switching capabilities are fully accessible, while the devices' compact design enable their use in a variety of limited-space applications.

Infineon's CoolGaN Gallium Nitride HEMTs are supported by the [EVAL_1EDF_G1_HB_GAN](#) and [EVAL_2500W_PFC_G](#) evaluation platforms. The EVAL_1EDF_G1_HB_GAN board features a CoolGaN 600 V HEMT and an Infineon GaN EiceDRIVER™ gate driver IC to enable engineers to evaluate high-frequency GaN capabilities in the universal half-bridge topology for converter and inverter applications. The EVAL_2500W_PFC_G board includes CoolGaN 600V e-mode HEMTs, a CoolMOS™ C7 Gold superjunction MOSFET, and EiceDRIVER gate driver ICs to deliver a 2.5 kW full-bridge power factor correction (PFC) evaluation tool that boosts system efficiency above 99 percent in energy-critical applications like SMPS and telecom rectifiers.

To learn more, visit www.mouser.com/infineon-coolgan-hemts.

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

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 750 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About Infineon Technologies

Infineon Technologies is a leading global designer, manufacturer and supplier of a broad range of semiconductors used in various microelectronic applications. Infineon's product portfolio consists of logic products, including digital, mixed-signal, and analog integrated circuits, as well as discrete semiconductor products.

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– 30 –

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