



New Product Announcement

Mouser Now Stocking Infineon's Newest CIPOS Intelligent Power Modules

Two- and Three-Phase Bridges Integrate CoolMOS Technology for High Performance

May 23, 2018 – [Mouser Electronics](#), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the latest Control Integrated Power System ([CIPOS™ Mini](#)) Intelligent Power Modules from [Infineon Technologies](#). These new Intelligent Power Modules (IPMs) from the [CIPOS family](#) are designed to control two- or three-phase AC motors and permanent magnet motors with single-phase power factor control (PFC) in variable speed drives.

The [Infineon CIPOS IPM](#) family, available from Mouser Electronics, includes the [energy-efficient](#) CIPOS Mini IPMs, cost-efficient Micro IPMS, and ultra-compact Nano IPMS. The new [IM512 and IM513 series](#) CIPOS Mini IPMs are two- and three-phase bridges, respectively, that incorporate Infineon [CoolMOS™](#) CFD2 650 V power MOSFETs combined with an optimized SOI gate driver for excellent electrical performance.

Designed for power applications, all of the CIPOS Mini IPMs deliver very low thermal resistance and high electrical isolation while also providing EMI-safe control and overload protection. Offering a wide range of current ratings from 4 A to 30 A, each CIPOS Mini IPMs is optimized for its target application, such as [motor control](#) in refrigerators, air conditioners, washing machines, and other white goods.

The CIPOS portfolio of IPMs are highly integrated and feature the latest technology including CoolMOS Power MOSFETs, advanced TrenchSTOP™ IGBTs, next-generation gate driver ICs, and state-of-the-art thermo-mechanical technology. The broad variety of semiconductors, packages, and voltage and current classes in the entire CIPOS family allow developers to select the right IPM to reduce time to market, lower component count, improve reliability and simplify motor drive designs.

The Infineon CIPOS IPMs are supported by a range of evaluation tools, including the iMOTION™ Modular Application Design Kit for motor control ([iMOTION MADK](#)) and associated [EVAL-M1-05F804 evaluation board](#), part of. The iMOTION MADK is a compact and flexible evaluation system that provides a scalable design platform for three-phase motor drives ranging from 20W to 300W. The EVAL-M1-05F804 evaluation board interfaces with the iMOTION MADK through a 20-pin connector to provide comprehensive power stage solutions featuring Infineon CIPOS.

To learn more about all of the IPMs in the CIPOS family, visit www.mouser.com/infineon-cipos.

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 700 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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