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## New Product Announcement

### Get the Rugged Infineon XMC1000 Industrial MCUs In Stock at Mouser

September 11, 2014 – [Mouser Electronics](#), Inc., is now stocking the [XMC1000 ARM® Cortex-M0 32-bit Industrial Microcontrollers](#) from [Infineon Technologies](#). With this new product offering, Mouser Electronics is now the first to stock the entire [Infineon XMC family of microcontrollers](#) and boasts the broadest offering of Infineon XMC MCUs available for same-day shipping. This new XMC series is built on Infineon's leading edge 65nm manufacturing process and offers a wide range of options for a single microcontroller (MCU) family, including hardware support for trigonometric arithmetic, Flash memory sizes of up to 200KBytes, and a wide operating voltage. These microcontrollers are rated at up to 105°C, meeting the requirements for harsh [industrial applications](#).

The [Infineon XMC1000 32-bit Industrial Microcontrollers](#), available from Mouser Electronics, offer an unprecedented range of options for a microcontroller family. These MCUs are based on a 32MHz ARM Cortex-M0, an easy-to-learn 32-bit core that is a suitable replacement for many high-end industrial 8-bit MCUs. The high end XMC1300 boasts 200KBytes of on-chip Flash memory with error correction and 16KBytes of zero wait state SRAM. 8KBytes of boot ROM provides device the initialization code, exception vector tables, and device ID information. A wide assortment of serial ports and timers are available, as well as a fast 12-channel, 12-bit analog to digital converter (ADC). A CORDIC unit, a specialized math coprocessor that provides trigonometric, linear, and hyperbolic calculations along with 32-bit division, is also on-chip.

The XMC1000 family features specialized peripherals for industrial control including Infineon's CCU4 timer unit for precision timing functions; the CCU8 timer for complex timing applications such as high end [motor control](#), multi-phase systems, and [direct torque control of AC motors](#); interfaces for hall and quadrature encoders for motor positioning; and a Brightness and Color Control Unit (BCCU) for industrial LED color and dimming [lighting applications](#).

A window watchdog timer provides software security for safety sensitive applications. A Real Time Clock (RTC) supports an alarm interrupt at any selected time, and a System Control Unit (SCU) provides specialized system stability functions including memory protection, clock and voltage monitoring, and clock system control. A pseudo random number generator provides fast random data for encryption applications. Operating voltage is a wide 1.8V to 5.5V.

The XMC1000 targets harsh industrial control applications including high end motor control, digital power conversion, and LED lighting applications.

To learn more, visit: <http://www.mouser.com/new/Infineon-Technologies/infineon-xmc1000/>.

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 20 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

### **About Mouser Electronics**

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 400,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://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.

### **Trademarks**

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