



## Market News

### **Infineon XMC4000 speeds up Functional Safety development of industrial applications**

Munich and Nuremberg, Germany – November 25, 2015 – Further advancing the development of Functional Safety industrial applications Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) today announced the availability of the Safety Package for the [XMC4000](#) family of 32-bit microcontrollers. The XMC4000 Safety Package helps to develop TÜV-certified automation systems that conform with Safety Integrity Levels SIL2 and SIL3. In addition, with the XMC4000 Safety Package Infineon helps to cut development time for the functional safety software test libraries down to about one year. The XMC4000 Safety Package was developed specifically for industrial high-end applications such as factory automation, industrial motor control and robotics.

The XMC4000 Safety Package includes XMC4000 microcontroller hardware, detailed documentation and a TÜV-certified software test library, which was developed together with the functional safety solution provider YOGITECH. Also, it includes consultancy and implementation support by the embedded engineering tool supplier Hitex that offers extensive experience in Functional Safety applications. The detailed documentation comprises a failure mode report, FMEDA (Failure Mode Effects and Diagnostic Analysis) based on liable FIT (failure in time) rates for the XMC4000 microcontrollers, and the Safety Application Note helping to develop SIL2 and SIL3 systems.

Infineon, YOGITECH and Hitex are presenting the XMC4000 Safety Package this week at the SPS IPC Drives 2015 trade show for electrical automation in Nuremberg, Germany, at the Infineon booth 550 in hall 1.

#### **Availability of the XMC4000 Safety Package**

The detailed documentation from Infineon including the failure mode report, FMEDA and Safety Application Note will be available in January 2016. The non-TÜV-certified version of the XMC4000 Fault Robust Software Test Library (fRSTL) of YOGITECH

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is available in December 2015. Under licence of YOGITECH or Hitex, the TÜV-certified version will be available in Q1 2016.

### **XMC4000 family uses the Cortex®-M4 processor from ARM®**

The XMC4000 family addresses industrial market needs and is ideal for digital power conversion, motor control, sense & control, and IO applications. All XMC4000 devices are qualified for operation at 125°C ambient temperature. They are powered by ARM® Cortex®-M4 with a built-in DSP instruction set, Single Precision Floating Point Unit, Direct Memory Access (DMA) feature and Memory Protection Unit (MPU). All members of the XMC4000 family come with a comprehensive set of common, fast and precise analog/mixed signal, Timer/PWM and communication peripherals. The XMC4000 family today has six series: XMC4100, XMC4200, XMC4400, XMC4500, XMC4700 and XMC4800, with more than 75 devices in VQFN, LQFP and LFBGA packages scaling from 48 to 196 pins. As a highlight, the XMC4800 devices are the first-ever highly integrated ARM® Cortex®-M4 based microcontrollers with EtherCAT® integrated, bringing real-time ethernet communication that is easy to implement with high cost effectiveness.

### **Further information**

More information about the XMC4000 family is available at [www.infineon.com/xmc](http://www.infineon.com/xmc). Information on YOGITECH's portfolio of IEC 61508 compliant Software Test Libraries addressing XMC4000 microcontrollers is available at [www.yogitech.com](http://www.yogitech.com). Information on Hitex is available at [www.hitex.com](http://www.hitex.com).

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