

News Release / Presseinformation

Infineon XMC4500 Industrial Microcontrollers and Comprehensive Range of Development Tools Now Available

Neubiberg and Nuremberg, Germany – February 28, 2012 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) has launched its [XMC4500](#) series, the company's first 32-bit industrial [microcontrollers](#) using the Cortex™ M4 processor from ARM®. Samples of the XMC4500 microcontrollers, which will go into high-volume production in May 2012, are presented at the Embedded World Exhibition & Conference 2012 in Nuremberg, Germany. Complementing the product are development tools providing comprehensive support: In addition to Infineon's free [DAVE™](#) 3 development environment, a full [range of tools](#) is available including compilers, debuggers, software analysis and Flash programming tools, an extensive range of software solutions and consulting services by reputable providers. The XMC4500 series is suited particularly for use in electric drives, solar inverters and the automation of manufacturing and buildings.

"The XMC4000 family is more closely tailored to industrial customers' requirements than any other competing product: it offers high-performance peripherals and a comprehensive development environment that makes familiarization convenient, time-saving and free of charge," said Dr. Stephan Zizala, Senior Director of Industrial and Multimarket Microcontrollers at Infineon Technologies AG. "The XMC4500 series reaps the benefits of our more than 30 years of experience in microcontroller development for industrial applications. XMC4500 has timer modules optimized for electric motor control, fast ADCs, integrated delta sigma demodulators, fast and robust Flash memory and an extended temperature range of up to 125 °C."

In common with all members of the XMC4000 family, the XMC4500 series helps to improve the energy efficiency of the systems, supports a large number of communication standards and reduces complexity during software development. To this end, Infineon offers the free DAVE 3 integrated development environment. In addition to code generation based on DAVE apps, the development environment

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features a GNU compiler, a debugger and data visualization tools. A modular design kit is also available. Up to three additional application boards – for communication with other systems, for actuators and sensors, and for human-machine interface (HMI) functions – can be connected to the basic design board, depending on the respective application requirements.

XMC4500 for the medium performance range of 120 MHz

The XMC4500 series currently comprises several products differing in terms of temperature range (85 °C or 125 °C), Flash memory size (512 kB to 1 MB) and package (LQFP-100, LQFP-144 and LFBGA-144). The XMC4500 microcontrollers provide a 120 MHz CPU, 160 Kbytes of RAM and a comprehensive range of peripheral and interface functions. The peripherals include four parallel fast 12-bit A/D converter modules, two 12-bit D/A converters, four delta sigma demodulator modules and six capture/compare units (CCU4 and CCU8). Added to this are two positioning interface modules, a touch button and an LED matrix control module. Communication functions comprise interfaces for Ethernet, USB, and SD/MMC. In addition, three CAN nodes, six serial communication channels and one external bus interface are provided.

Availability of XMC4500 and pricing

Samples of the XMC4500 series can be ordered as from the Embedded World Exhibition & Conference 2012. Depending on CPU frequency, temperature range and package selected, the unit price for a XMC4500 microcontroller ranges between Euro 3.90 and Euro 5.50 (for 10k orders).

Availability of other XMC4000 family members

XMC stands for “Cross-Market Microcontrollers” and, as its name implies, is for use in a wide range of industrial applications. The XMC4000 family currently consists of five series differing mainly in terms of core frequency, memory capacity, peripheral functions and number of I/Os: XMC4500 with 120 MHz CPU, for which samples are available, XMC4100 and XMC4200 with 80 MHz, XMC4400 with 120 MHz, and the XMC4700 series with 180 MHz still undergoing definition. Samples of the XMC4100, XMC4200 and XMC4400 series will be available in the fourth quarter of 2012.

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More information

More information on the XMC4500 series and XMC4000 family can be found at www.infineon.com/xmc and in the [News Release of January 23, 2012](#).

Information on what our tool partners have to offer is available at www.infineon.com/xmc-swt

Infineon will present the XMC4500 series and the DAVE 3 development environment at its booth #142 in hall 4 at the Embedded World Exhibition & Conference 2012 trade show (Nuremberg, Germany, February 28 to March 1, 2012). Information on other Infineon highlights at the trade show can be found at www.infineon.com/embeddedworld

About Infineon

[Infineon](#) Technologies AG, Neubiberg, Germany, offers semiconductor and system solutions addressing three central challenges to modern society: [energy efficiency](#), [mobility](#), and [security](#). In the 2011 fiscal year (ending September 30), the company reported sales of Euro 4 billion with close to 26,000 employees worldwide. Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the over-the-counter market OTCQX International Premier (ticker symbol: IFNNY).

Further information is available at www.infineon.com.

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