

Nuvoton Launches Cortex®-M4F-based NuMicro M451 Series Microcontrollers

Nuvoton launches the high immunity NuMicro M451 series embedded with the ARM® Cortex®-M4F core, developed to meet high-end DSC digital signal control markets

HSINCHU, TAWAN, TAWAN, August 31, 2016 /EINPresswire.com/ -- Hsinchu, Taiwan— 2016/01 – Nuvoton launches the high immunity NuMicro [M451](#) series embedded with the ARM® Cortex®-M4F core, developed to meet high-end DSC digital signal control markets that demand high performance, cost effective and easy-to-use microcontrollers. The NuMicro M451 series starts at the competitive price of 0.89 USD per unit (M451MLC3AE). To shorten the developing process, several development kits have been

launched, including the NuTiny-SDK-M451, the Nu-LB-M451 learning board, and the Arduino compatible NuEdu-M451 development kit.

The NuMicro M451 series will support the ARM® mbed™ IoT Device Platform, while providing the operating system for the creation and deployment of commercial, standards-based IoT solutions. Nuvoton is the first company in Greater China region to partner with ARM. The NuMicro M451 series includes a total of 33 ARM® Cortex®-M4F based products, including the Cortex®-M451 Base Series, M452 USB and OTG Series, M453 CAN Series, and M451M Series supporting pin compatible to the M051 Series MCUs. The NuMicro M451 series is embedded with the ARM® Cortex®-M4F core for use on DSP (digital signal processor) and FPU (float point unit), and is equipped with high performance computing capability running up to 72MHz, built-in 256/128/72/40 Kbytes Flash ROM and 32/16 Kbytes SRAM. The NuMicro M451 series is now in volume production; it offers the LQFP48 (7mm x 7mm), LQFP64 (7mm x 7mm), LQFP64 (10mm x 10mm) and LQFP100 (14mm x 14mm) package types for various applications. Nuvoton's M451 series provides the industrial operating temperature from -40°C to 105°C, 22.1184 MHz internal RC oscillator (variation < ±2%) and 32.768 kHz external crystal oscillator (variation < ±0.25%), by auto calibration adequately fulfill the high precision demand of communications. The wide operating voltage range (2.5V-5.5V) and 5V tolerance of I/O input design of the NuMicro M451 series can significantly enhance system integration ability and stability. The specially designed VAI (Voltage Adjustment Interface) system supports voltage level shift for individual I/O (1.8-5.5V) to save additional cost on level shift components.

With a variety of additional features such as high-resolution 144MHz PWM, combine to trigger ADC, built-in hardware brake protection and pulse capture functions, the NuMicro M451 series can save MCU computing burden and effectively carry out advanced computing required by motor control, making it exceptionally outstanding in industrial automation and motor control performance. In chipset security, to protect customers' intellectual property rights, Nuvoton has designed a stronghold for the NuMicro M451 series, such as the flash safety lock, tamper detection pin, 96-bit UID and 128-bit UCID, to provide multiple protection for program development. The NuMicro M451 series is specifically suitable for high-performance and high-precision applications, such as industrial control, system automation, security surveillance, autotronics and digital power control.



Nu-LB-M451

For more information on NuMicro M451 Series, please visit:

http://www.nuvoton.com/hq/products/microcontrollers/arm-cortex-m4-mcus/?_locale=en

To make a purchase, please find your local distributor, or contact Nuvoton directly:

http://www.nuvoton.com/hq/buy/worldwide-rep-dist/?_locale=en

About Nuvoton

Nuvoton Technology Corporation (NTC) was founded to bring innovative semiconductor solutions to the market. NTC was spun-off as a Winbond Electronics affiliate in July 2008 and became public in September 2010 on the Taiwan Stock Exchange (TSE). Nuvoton Technology focuses on development of analog/mixed signal, microcontroller, cloud and computing products and has strong market share in Industrial, Consumer and Computer markets. Nuvoton owns a wafer fab, featuring customized processes for analog, power and MCU products. Besides in-house IC products, the wafer fab also provides part of its capacity for foundry services. Nuvoton Technology provides products with a high performance/cost ratio for its customers by leveraging flexible technology, advanced design capability and integration of digital and analog technologies. Nuvoton values long term relationships with its partners and customers and is dedicated to continuous innovation of its products, processes and services. The company has established subsidiaries in the USA, China and Israel to strengthen regional customer support and global management. For more information, please visit

www.nuvoton.com

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