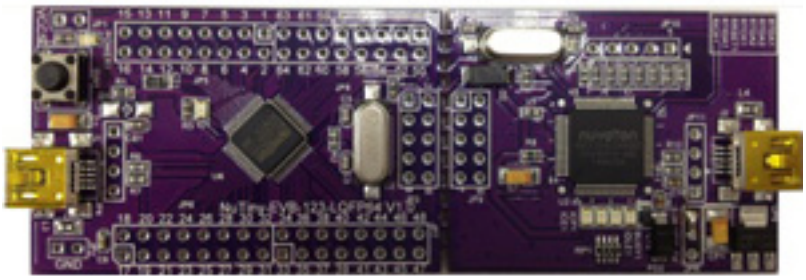
Microcontroller provides high 72-MHz operating speed



Nuvoton Technology Corporation announces the launch of NUC123 series, a new 32-bit Cortex-M0 microcontroller with USB 2.0 Full Speed devices and a 10-bit ADC. The NUC123 series provides the high 72MHz operating speed, large 20KB SRAM and 8 USB endpoints which make it powerful in USB communication and data processing. The NUC123 series is ideal for consumer electronics, industrial control, and communication system applications.

The NUC123 series features 72MHz high speed and supports 32-bit multiplier, structure NVIC (Nested Vector Interrupt Control), dual-channel APB and PDMA (Peripheral Direct Memory Access)with CRC function. In addition, the NUC123 series is equipped with flash memory ranging from 36KB to 68KB, SRAM from 12KB to 20KB, 8-channel 10-bit ADC, high-performance communications peripherals, such as UART, SPI, I2C, I2S USB 2.0 FS devices, and offers low-voltage reset and Brown-out detection, PWM (Pulse-width Modulation), capture and compare features, four sets of 32-bit timers, Watchdog Timer, and internal RC oscillator, etc.

The NuTiny-SDK-NUC123 is a development kit which supports NUC123 series to work with Keil RVMDK, IAR EWARM evaluation development environment, and CooCox (http://www.coocox.com/Nuvoton.htm) – a free and open development tool, including project manager, editor, compiler tools and debugger. Nuvoton also provides the ISP (In System Program), ICP (In Circuit Program) and IAP (In Application Program) function, by either on-line or off-line programming system to update flash memory program.

The NUC123 series is now in volume production; it offers the LQFP48/64 and QFN33 package types for various applications.

For more information, please visit www.nuvoton.com [1].

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[1] http://www.nuvoton.com