March 5, 2007

Microchip Technology Expands High-Performance and Cost-Effective 8-Bit Microcontroller Line with New General-Purpose Family

PIC18F87J11 Family Provides More Performance, Peripherals and Memory Endurance with Lower Power Consumption, While Reducing the Cost

CHANDLER, Ariz.--(BUSINESS WIRE)--

Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller and analog semiconductors, today announced the 12-member PIC18F87J11 general-purpose, high-performance 8-bit microcontroller family, which offers up to 20% greater performance with 12 MIPS (48 MHz), enhanced peripherals and lower sleep power consumption. With its breadth of family members, the PIC18F87J11 also provides a wide range of program memory and peripherals, ranging from most cost effective to feature rich.

Microchip is expanding its 3V PIC18F J-series of 8-bit microcontrollers to address cost-sensitive markets requiring high performance. Additionally, the PIC18F87J11 general-purpose family includes nanoWatt Technology for low power consumption in sleep mode, as low as 100 nA, which is ideal for battery-powered applications. Finally, the PIC18F87J11 is the first 8-bit microcontroller to offer the Parallel Master Port for connection to external memory and displays.

"The new PIC18F87J11 family offers more integration and performance, while continuing to provide a new benchmark in price-performance for high-end 8-bit microcontrollers," said Mitch Obolsky, vice president of Microchip's Advanced Microcontroller Architecture Division. "By undertaking this expansion of our high-performance 8-bit microcontroller portfolio, Microchip continues to demonstrate its commitment to meeting customer needs for increasingly complex and cost-sensitive markets."

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Example Applications

--  Consumer & Appliance: wireless Internet-enabled appliances,
    hands-free cell phone adapters, white good appliances, game
    controllers, cappuccino machines, two-way pagers

--  Industrial: TCP/IP interfaces, home-alarm/security-system
    keypads, server power-supply and temperature controllers,
    power-meter hubs, security panels, data logging, central AC
    communication controllers

--  Automotive: car alarms
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--  Medical: bio-flow meters, patient monitors

Key Features

--  8 to 128 Kbytes of self-programmable Flash in 64- and 80-pin
    TQFP packages, with up to 10k erase-write cycles

--  First 8-bit MCU with Parallel Master Port for flexible
    connection to external memory and displays

--  Multiple communication channels including up to 2 SPI/I2C(TM),
    2 UART and 5 PWM modules

--  Up to 12 MIPS at 3V

--  5V Tolerant digital I/O

--  8 MHz Internal Oscillator and 4x PLL for up to 32 MHz
    operation, without an external clock source

--  Low-power sleep mode

Development Tools
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To reduce time-to-market, all 12 members of the PIC18F87J11 microcontroller family are supported by Microchip's standard, high-performance development systems, including: the free MPLAB(R) Integrated Development Environment (IDE) with Visual Device Initializer, MPLAB C18 C Compiler, MPLAB ICD 2 In-Circuit Debugger, and the $59.99 PICDEM(TM) HPC Explorer Board (part # DM183022)--via separate $25 plug-in modules. A PICDEM HPC Explorer plug-in module for the PIC18F87J11 is expected to be available in March (part # MA180020).

Availability

The 12-member PIC18F87J11 family is offered in 64- or 80-pin TQFP package options, and all are available now for sampling by contacting your local sales office. Volume-production is expected in March, starting at $2.27 each in 10,000-unit quantities. For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at www.microchip.com/PIC18J.

Microchip Customer Support

Microchip is committed to supporting its customers by helping design engineers develop products faster and more efficiently. Customers can access four main service areas at www.microchip.com. The Support area provides a fast way to get questions answered; the Sample area offers free evaluation samples of any Microchip device; microchipDIRECT provides 24-hour pricing, ordering, inventory and credit for convenient purchasing of all Microchip devices and development tools; finally, the Training area educates customers through webinars, sign-ups for local seminar and workshop courses, and information about the annual MASTERs events held throughout the world.

About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller and analog semiconductors, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide.

Headquartered in Chandler, Arizona, Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at www.microchip.com.


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    --Photo and Block Diagram available through editorial contact--
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Source: Microchip Technology Inc.