

## 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 costs*

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Microchip Technology Inc., a leading provider of microcontroller and analog semiconductors, 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."

**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  
**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, 2 UART and 5 PWM modules  
Up to 12 MIPS at 3V5V 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

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 Integrated Development Environment (IDE) with Visual Device Initializer, MPLAB C18 C Compiler, MPLAB ICD 2 In-Circuit Debugger, and the PICDEM HPC Explorer Board (part # DM183022) - via separate 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. For additional information, contact any Microchip sales representative or authorised worldwide distributor, or visit Microchip's Web site at [www.microchip.com/PIC18J](http://www.microchip.com/PIC18J).

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## **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 <http://www.microchip.com/>.

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