

SOLUTIONS



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MICROCHIP TECHNOLOGY EXPANDS POWERFUL PIC18 ARCHITECTURE PORTFOLIO WITH 8-PIN FLASH DEVICES

The PIC18F010 and PIC18F020 Flash microcontrollers pack industry-leading performance of 10 MIPS, 4K bytes of Flash program memory, 256 bytes of user RAM and 64 bytes of EEPROM data memory into a small 8-pin package. Implemented on Microchip's new 0.5 micron process technology, the devices expand Microchip's broad portfolio of Flash and powerful PIC18 architecture devices.

FLEXIBILITY GETS RESULTS

The PIC18F010 and PIC18F020 devices complement the more than 140 existing PICmicro[®] microcontrollers and provide a broad portfolio of memory and peripheral options to meet almost any design requirement.

Both devices are pin and code compatible with existing 8-pin PICmicro microcontrollers. Pin compatibility decreases prototype time and saves money since existing PC boards can be reused with new features. The code compatibility across all 8- to 84-pins of the PICmicro architecture saves development time and money since software can be reused across several platforms.

The increased performance of the RISC architecture can accommodate additional software features and also improve timing accuracy for quick customization. Modular development tools provide exact emulation of complex systems, leading to reduced development and validation time and lower tool costs.

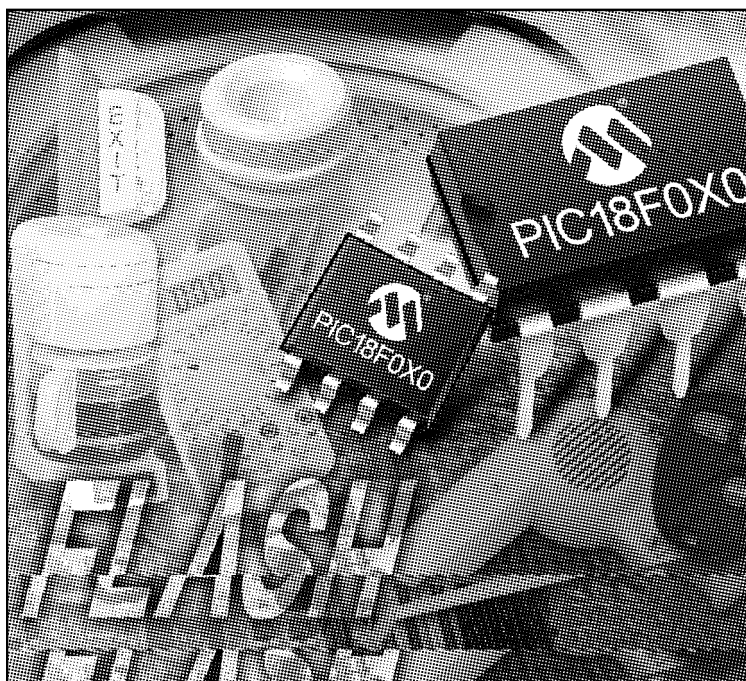
PIC18F010 & PIC18F020 FEATURES

Featuring low voltage operation with programmable low voltage detect (PLVD), as well as EEPROM

write capability down to 2 volts, the PIC18F010 and PIC18F020 devices are well suited for battery applications. A programmable internal oscillator provides designers with the ability to select different frequencies ranging from 32kHz to 8MHz, matching current consumption and performance for specific applications. The flexibility of the PIC18 core architecture combined with the Flash memory offer the advantages of in-circuit programming and upgrading. The devices feature a programmable brown-out detector, 8x8 multiply, 31 hardware stack levels and a 16-bit timer/counter.

DEVELOPMENT TOOLS

Microchip's MPLAB[®] In Circuit Debugger (ICD) supports the PIC18F010 and PIC18F020 with a complete hardware development system, including a



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