

8-bit MCU portfolio adds mid-range families targeting Full-Speed USB 2.0



Microchip Technology Inc.

expanded its certified Full-Speed USB 2.0 Device PIC microcontroller portfolio with three new Enhanced Midrange 8-bit families comprising 15 scalable MCUs ranging from 14 to 100 pins with up to 128 KB of Flash. All feature internal clock sources with the 0.25 percent clock accuracy necessary for USB communication, which eliminates the need for an external crystal. All three families are eXtreme Low Power compliant, with power consumption down to 35 μ A/MHz Active and 20 nA in Sleep mode. The 14- and 20-pin PIC16F145X MCUs are Microchip's lowest-cost and smallest-form-factor USB MCUs to date. Available in packages as small as 4x4 mm and featuring a wide array of integrated peripherals, the three-member family enables embedded applications that require USB connectivity and capacitive touch sensing, such as pulse oxymeters, PC accessories and security dongles.

The PIC18F2X/4XK50 devices, available in 28- and 40/44-pins, offer a pin-compatible migration option for customers utilizing legacy PIC18 USB MCUs. The three family members feature 1.8-V to 5-V operation, and integrate a "Charge Time Measurement Unit" for higher performance cap-touch sensing as well as measurement in applications such as audio docks and data loggers.

The full-featured PIC18F97J94 family is Microchip's first to offer integrated LCD control, RTCC with Vbat, and USB on a single 8-bit PIC microcontroller. Available in 64, 80 and 100 pins, the nine-member family offers a 60x8 LCD controller (for a total of 480 segments), which eliminates the need for an external controller in applications with large segmented displays. It also integrates a real-time clock/calendar with battery back-up for end products such as home-automation/security panels, handheld scanners and single-phase energy meters.

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