8-bit MCUs with Integrated, Certified USB 2.0 Full-Speed, 12 Mbps Transceiver

Microchip Technology announced an eight-member PIC18F87J50 8-bit microcontroller (MCU) family with an integrated and certified USB 2.0 Full-Speed, 12 Mbps transceiver. This USB MCU family also provides 12 MIPS performance with ample I/O and a selection of analog and digital peripherals for embedded systems designers who require Full-Speed USB connectivity. The PIC18F87J50 family can perform as the sole controller in embedded applications. This PIC MCUfamily makes the features of Full-Speed USB available to a broad range of embedded applications that operate in harsh environments and only occasionally connect to personal computers or other USB hosts. The particular requirements of the embedded market are addressed by integrating USB as one of the primary serial interfaces, as opposed to the prevalent approach that adds a serial-to-USB patch on top of an existing design. The PIC18F87J50 family also includes nanoWatt Technology for low power consumption in sleep mode, which is desirable for battery-powered applications. These features, combined with up to 65 available I/O, 128 KB of Flash program memory that can be updated in circuit and peripherals which include a 12-channel, 10-bit analog to digital converter (ADC) and a parallel master port for connection to external memory and displays, make this USB microcontroller family appropriate for embedded-control applications.
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