

# MCU Family Feature up to 14 KB of On-chip Flash memory



Microchip Technology Inc. today announced the latest additions to its Enhanced Mid-Range core 8-bit PIC® microcontroller (MCU) family—the peripheral-rich, low pin count PIC12F(LF)1840 and PIC16F(LF)1847. Featuring 7 KB and 14 KB of on-chip Flash memory, respectively, and up to 1 KB RAM, the new devices are the highest-memory PIC® MCUs in 8- and 18-pin packages. The “LF” versions feature eXtreme Low Power (XLP) Technology, for active currents of less than 40  $\mu\text{A}/\text{MHz}$  and sleep currents down to 20 nA. With their high level of peripherals and features, including mTouch™ capacitive touch-sensing and multiple communications peripherals, these general-purpose MCUs are well suited for a wide range of applications in the appliance (e.g. coffee makers, blenders, dishwashers); consumer (e.g. battery chargers, vacuum cleaners, printers, remote controls); and automotive markets (e.g. LED lighting, keyless entry, body electronics), among others.

Microchip’s eXtreme Low Power Technology remains the industry standard for battery-friendly MCUs, helping to improve overall energy efficiency in a variety of applications. The PIC12F(LF)1840 and PIC16F(LF)1847 MCUs are highly integrated, featuring multiple PWMs with independent time bases, a LIN-capable EUSART, and up to two I2C™/SPI interfaces. The on-chip, 32-level Voltage Reference can be used as a simple Digital-to-Analog Converter, and the Data Signal Modulator enables designers to create custom bit patterns using a broad spectrum of inputs.

“The PIC12F(LF)1840 and PIC16F(LF)1847 demonstrate our commitment to low power, and providing our customers with the most energy-efficient devices on the market,” said Steve Drehobl, vice president of Microchip’s Security, Microcontroller and Technology Development Division. “The new MCUs’ combination of large

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memories, low power consumption and innovative peripherals give our customers the tools they need to extend battery life, reduce board space and, most importantly, lower their bill-of-materials costs.”

### Development Support

The PIC12F(LF)1840 MCUs are supported by the PICkit™ 2 Low Pin Count Demo Board (part # DM164120-1, \$23.99), while the PIC16F(LF)1847 MCUs are supported by the PICkit 18-pin Demo Board (part # DM164120-4, \$23.99). All of the devices are supported by the PICkit 3 (part # PG164130, \$44.95) and MPLAB® ICD 3 (part # DV164035, \$189.99) debugger/programmers, as well as the PICDEM™ Lab Development Kit (part # DM163035, \$124.99). The latter comes complete with a development board containing five popular 8-bit PIC MCUs; a bag of discrete components; a debugger/programmer and a CD containing a User’s Guide, labs and application examples. All of these tools can be purchased today, at microchipDIRECT (<http://www.microchip.com/get/L0QX> [1]).

### Packaging, Pricing & Availability

The PIC12F(LF)1840 MCUs are available in 8-pin PDIP, SOIC and 3 mm x 3 mm DFN SOIC packages, for \$0.75 each, in 10,000-unit quantities. The PIC16F(LF)1847 MCUs are available in 18-pin PDIP, SOIC, SSOP and 4 mm x 4 mm UQFN packages, for \$1.04 each, in 10,000-unit quantities. For further information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip’s Web site at <http://www.microchip.com/get/MUP6> [2]. To purchase products mentioned in this press release, go to microchipDIRECT or contact one of Microchip’s authorized distribution partners.

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[1] <http://www.microchip.com/get/L0QX>

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