



## XLP 16-bit Development Board

Part Number: DM240311



The XLP 16-bit Development Board is designed with [eXtreme Low Power](#) in mind. Designed as a true platform for low power development, it enables designs with sleep currents as low as 20nA.

The board is suitable for prototyping many low power applications including [RF](#) sensors, data loggers, temperature sensors, electronic door locks, metering sensors, remote controls, security sensors, smart cards, and energy harvesting. The [PICTail™](#) interface supports Microchip's extensive line of daughter cards for easy evaluation of your next low power application.

This low cost board is the ideal complement to the [MPLAB® PICkit 3](#) or [ICD 3 debugger and programmer](#) realizing a fully-featured, economical, PIC24 development environment.

### XLP 16-bit Development Board Features

- PIC24F16KA102 (16KB Flash, 28-pins, XLP Device with 20nA Deep Sleep current )

- Supports other PIC24F devices in 20 or 28-pins
- Current measurement terminals allow device or board level current measurements
- PICTail™ daughter board connector for connection to expansion boards such as RF, SD/MMC Cards, Speech Playback and more
- mTouch™ capacitive sensing buttons for user input
- Expansion connector accessing full device pin-out and breadboard prototype area
- Convenient connections for MPLAB PICKit 3, ICD 3 or REAL ICE for in-circuit programming and debugging
- USB interface for power and PC communication
- 24AA256 Low Power (100nA Sleep, 1.7V Vdd) SPI serial-EEPROM
- Crystal oscillators for main clock and Real-time Clock and Calendar
- Potentiometer (connected to 10-bit A/D, analog input channel)
- Analog output temperature sensor and CTMU based diode temperature sensor
- LEDs for indication
- Optional RS-232 port (not populated)
- Power Options: AAA, CR2032, Energy Harvesting, USB, External, or 9V power supply

Also includes: USB Cable, demonstration software