# Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

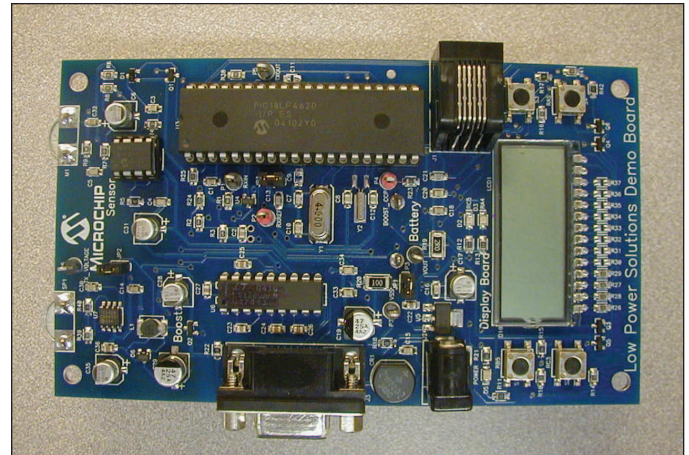# Low Power Solutions Demonstration Board

## Summary

The Low Power Solutions Demonstration board provides designers a convenient and fun way to explore PICmicro® nanoWatt features within a functional ultrasonic range-finder application. It features the PIC18F4620, Microchip Technology's latest power managed device.

The development tool is ideal for learning nanoWatt features and implementing system power reduction techniques. The Low Power Solutions Demonstration board is part of the Workshop-in-a-Box 2, a complete nanoWatt training kit designed for self-paced and instructor-led training.

The Low Power Solutions Demonstration board CD includes three self-paced, step-by-step lab exercises, using the PIC18F4620, which illustrate the following concepts: nanoWatt features to reduce power consumption, improving system power consumption and improving board performance.

## Features

- Fully functional ultrasonic range finder with LCD display (PCB also supports four 7-segment LEDs)
- DC boost circuit
- USART
- Connector for MPLAB® ICD 2 In-Circuit Debugger
- Two power supply options: 9V power supply or 9V battery
- Test points to measure system and PICmicro power consumption via current meter
- Three switches for input and a reset switch and 2 LEDs
- Microchip TC1047A Temperature Sensor
- In-Circuit Debugger (ICD) connector for programming via In-Circuit Serial Programming™ (ICSP™) technology or developing with the MPLAB ICD 2



## Package Contents

- Low Power Solutions Demonstration Board preprogrammed with functional range finder code
- CD with user's guide, sample code written for the MPLAB C18 Compiler and three step-by-step labs illustrating nanoWatt features

## Host System Requirements

- PC-compatible system with a Intel Pentium® class or higher processor, or equivalent
- A minimum of 32 MB RAM
- A minimum of 40 MB available hard drive space
- CD-ROM drive (for use with the accompanying CD)
- Available serial port
- Microsoft Windows® 95/98, Windows NT®, Windows 2000 or Windows XP

## MICROCHIP
### Development Systems

## Ordering Information

| Low Power Solutions Demonstration Board | | |
|---|---|---|
| **Part Number** | **Description** | **Availability** |
| DM163026 | Low Power Solutions Demonstration Board | Now |

| Development Tools from Microchip | |
|---|---|
| MPLAB® IDE | Integrated Development Environment (IDE) |
| MPASM™ Assembler | Universal PICmicro® Macro-Assembler |
| MPLINK™ Linker/MPLIB™ Librarian | Linker/Librarian |
| MPLAB SIM Simulator | Software Simulator |
| MPLAB C18 | C Compiler for PIC18CXXX MCUs |
| MPLAB C30 | C Compiler for dsPIC30F MCUs |
| PICkit™ 1 | Flash Starter Kit |
| MPLAB ICD 2 | In-Circuit Debugger |
| MPLAB ICE 2000 | Full-featured Modular In-Circuit Emulator for PIC12, PIC16 and PIC18 MCUs |
| MPLAB ICE 4000 | Full-featured Modular In-Circuit Emulator for PIC18 and dsPIC MCUs |
| PICSTART® Plus Programmer | Entry-level Development Kit with Programmer |
| MPLAB PM3 Device Programmer | Full-featured, Modular Device Programmer |
| KEELOQ® Evaluation Kit | Encoder/Decoder Evaluator |
| microID® Developer's Kit | 125 kHz and 13.56 MHz RFID Development Tools |

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