

# dsPICDEM™ Starter Demonstration Board

## Summary

The low-cost dsPIC® MCU Starter Demo Kit allows the user to easily validate a development tool setup using the dsPIC30F. It has a power supply regulator, crystal oscillator, ICD header, serial port, LEDs, push-buttons, potentiometer, and a prototyping area. In addition, all pins on the dsPIC device are brought out to a terminal block for access.

## Features

Key features of the dsPICDEM Starter Demonstration Board include:

- 5V power supply split at the regulator to provide a separate, de-coupled analog supply voltage useful in designs taking advantage of the 12-bit A/D converter.
- Analog peripherals including an MCP41010 digital potentiometer used as a DAC to generate signals, and a MCP6022 to provide output filtering for the DAC and an input filter for the 12-bit A/D. The filter cutoff frequencies are set to 4 KHz to allow telephone-quality signals.
- The dsPICDEM starter board is delivered with a demo application that uses the digital potentiometer to generate audio tones. This output can be connected into the 12-bit ADC for measurement.



## Package Contents

- dsPICDEM Starter Demonstration Board
- Documentation on CD

## Host System Requirements

- PC-compatible system with an Intel Pentium® class or higher processor, or equivalent
- A minimum of 16 MB RAM
- A minimum of 40 MB available hard drive space
- CD ROM drive
- Microsoft Windows® 98, Windows NT® 4.0, Windows 2000 or Windows XP



**MICROCHIP**

Development Systems

**Microchip Technology Incorporated**

## Part Numbers and Ordering Information:

dsPICDEM™ Starter Demonstration Board		
Part Number	Description	Availability
DM300016	dsPICDEM Starter Demonstration Board (Supports dsPIC30F5011, dsPIC30F6011, dsPIC30F6012)	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

Americas		Asia/Pacific		Europe	
Atlanta	(770) 640-0034	Australia	61-2-9868-6733	Austria	43-7242-2244-399
Boston	(978) 692-3848	China – Beijing	86-10-85282100	Denmark	45-4420-9895
Chicago	(630) 285-0071	China – Chengdu	86-28-86766200	France	33-1-69-53-63-20
Dallas	(972) 818-7423	China – Fuzhou	86-591-7503506	Germany	49-89-627-144-0
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		Taiwan	886-2-2717-7175		
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Microchip Technology Inc. • 2355 W. Chandler Blvd. • Chandler, AZ 85224-6199 USA • (480) 792-7200 • FAX (480) 792-7277

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