

dsPICDEM™ 1.1 General Purpose Development Board

Summary

The dsPIC30F general purpose development board provides the application designer with a low cost development tool to become familiar with the dsPIC30F 16-bit architecture, high performance peripherals and powerful instruction set.

The board features an active demonstration program loaded on the installed dsPIC30F6014 device. Several program functions are selectable via a menu system displayed on the LCD. These include: temperature and voltage measurements, frequency domain characteristics of a sinewave signal generated on-board from a digital potentiometer, FIR and IIR digital filter selections and DTMF tone generation using the Codec interface peripheral (external speaker required).

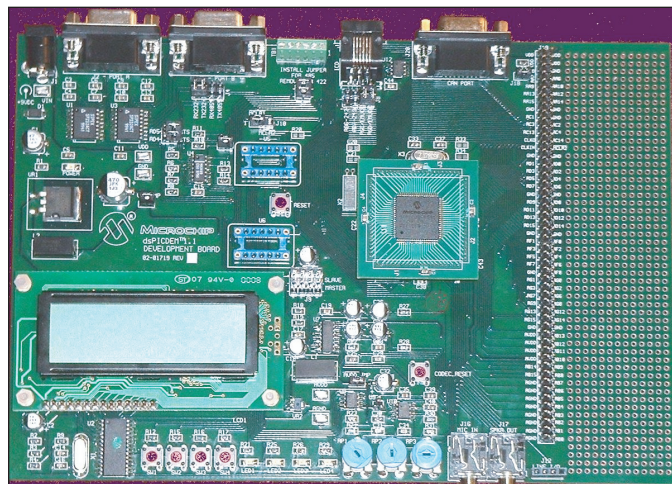
Also included is a simple tutorial written in assembly language. Users can create a project, assemble and link the code, program and/or debug the code using Microchip's MPLAB IDE (Integrated Development Environment) - included free, and an MPLAB ICD 2 In-Circuit Debugger - available separately.

The development board serves as an ideal prototyping tool to quickly develop and validate key design requirements.

Features

Key features of the dsPICDEM 1.1 General Purpose Development Board include:

- dsPIC30F6014 Plug-in Sample
- Serial Communication Channels Interface (two UARTs, SPI™, CAN, RS-485)
- Si3000 Voiceband Codec with MIC In/Speaker Jacks
- General Purpose Prototyping Area with Expansion Header
- 122 x 32 Dot Addressable LCD
- MPLAB® ICD 2 and MPLAB ICE 4000 Emulator support
- LED's, Switches and Potentiometers
- Temperature Sensor
- Separate Digital and Analog Voltage Regulators
- Digital Potentiometer for DAC Capability



Package Contents

- dsPICDEM 1.1 Development Board with Pre-programmed dsPIC30F Device
- RS-232 Cable
- Power Supply
- Example Software and 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



Part Numbers and Ordering Information:

dsPICDEM™ 1.1 General Purpose Development Board		
Part Number	Description	Availability
DM300014	dsPICDEM 1.1 General Purpose Development Board (Supports dsPIC30F5013, dsPIC30F6013, dsPIC30F6014)	Now

Development Tools from Microchip		
MPLAB® IDE	Integrated Development Environment (IDE)	
MPASM™ Assembler	Universal PICmicro macro-assembler	
MPLINK™ Linker/MPLIB™ Librarian	Linker/Librarian	
MPLAB C17	C compiler for PIC17CXXX MCUs	
MPLAB C18	C compiler for PIC18CXXX MCUs	
MPLAB SIM Simulator	Software Simulator	
MPLAB ICD 2	In-Circuit Debugger	
MPLAB ICE 2000	Full-featured modular in-circuit emulator	
PICSTART® Plus Programmer	Entry-level development kit with programmer	
PRO MATE® II Device Programmer	Full-featured, modular device programmer	
KEELOQ® Evaluation Kit	Encoder/Decoder evaluator	
KEELOQ Transponder Evaluation Kit	Transmitter/Transponder evaluator	
microID™ Developer's Kit	125 kHz and 13.56 MHz RFID development tools	
MCP2510 CAN Developer's Kit	MCP2510 CAN evaluation/development tool	

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
Detroit	(248) 538-2250	China – Hong Kong SAR	852-2401-1200	Italy	39-0331-742611
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Los Angeles	(949) 263-1888	China – Shanghai	86-21-6275-5700	United Kingdom	44-118-921-5869
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San Jose	(408) 436-7950	China – Shunde	86-765-8395507		As of 9/1/03
Toronto	(905) 673-0699	India	91-80-2290061		
		Japan	81-45-471- 6166		
		Korea	82-2-554-7200		
		Singapore	65-6334-8870		
		Taiwan	886-2-2717-7175		
		Taiwan – Kaohsiung	886-7-536-4818		

Microchip Technology Inc. • 2355 W. Chandler Blvd. • Chandler, AZ 85224-6199 USA • (480) 792-7200 • FAX (480) 792-7277

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