

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

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Atlanta (770) 640-0034	Australia	61-2-9868-6733
Boston (978) 692-3848	China – Beijing	86-10-85282100
Chicago (630) 285-0071	China – Chengdu	86-28-86766200
Dallas (972) 818-7423	China – Fuzhou	86-591-7503506
Detroit (248) 538-2250	China – Hong Kong SAR	852-2401-1200
Kokomo (765) 864-8360	China – Qingdao	86-532-5027355
Los Angeles (949) 263-1888	China – Shanghai	86-21-6275-5700
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	Singapore	65-6334-8870
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