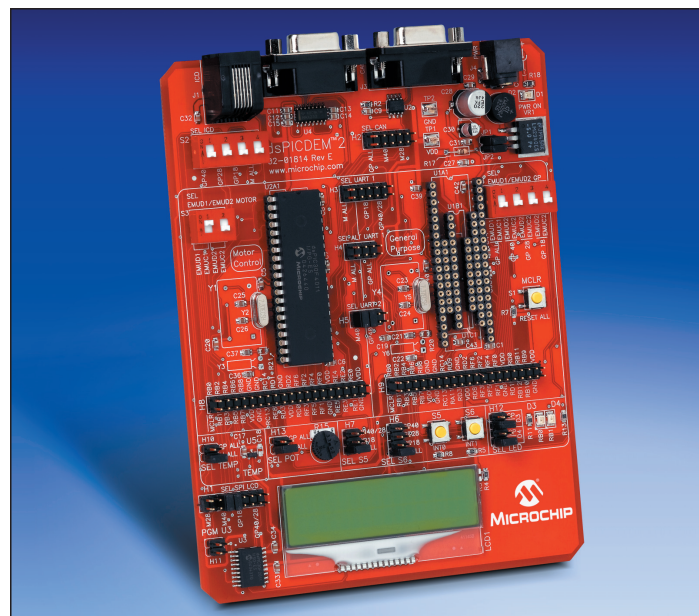


dsPICDEM™ 2 Development Board

Summary

The dsPICDEM™ 2 Development Board is a development and evaluation tool that helps you create embedded applications using dsPIC30F Digital Signal Controllers. Sockets are provided for 28 and 40-pin devices in the motor control family and 18, 28 and 40-pin devices in the general purpose and sensor family. The supported devices are shown in the table below.

The board includes a sample dsPIC30F4011 Digital Signal Controller in the 40-pin motor control socket, a power supply regulator, crystal oscillators for each set of sockets, an ICD connector for the MPLAB® ICD 2 In-Circuit Debugger and both RS-232 and CAN ports for external communication. In addition, the board is populated with prototyping hardware, including LED indicators, push button switches, a potentiometer, a temperature sensor and a 2x16 LCD screen. All pins on all the device sockets are accessible through headers.



Features

Key features of the dsPICDEM 2 Development Kit include:

- Multiple sockets for 18, 28 and 40-pin PDIP and SPDIP devices
- Sample application programs complete with MPLAB IDE workspace and project files provided for supported dsPIC30F devices
- dsPIC30F4011 40-pin PDIP sample device installed on the board
- 5V regulator provides VDD and AVDD from a 9V DC power supply.
- MPLAB ICD 2 In-Circuit Debugger ready
 - Options for selecting alternate debugging channels
- MPLAB ICE 4000 ready
- RS-232 interface
- Controller Area Network (CAN) interface
- Temperature sensor and analog potentiometer to simulate A/D inputs
- 2 push button switches and 2 LED indicators to simulate digital input and output
- 2x16 ASCII Character LCD with SPI™ interface
- Access to all pins on the dsPIC30F device sockets via 2x40-pin headers

dsPIC30F Device	Supported Packages
Motor Control Family	
30F2010	28-pin SPDIP
30F3010	28-pin SPDIP
30F4012	28-pin PDIP
30F3011	40-pin PDIP
30F4011	40-pin PDIP
Sensor Family	
30F2011	18-pin PDIP
30F3012	18-pin PDIP
30F2011	28-pin SPDIP
30F3013	28-pin SPDIP
General Purpose Family	
30F3014	40-pin PDIP
30F4013	40-pin PDIP



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Package Contents

- dsPICDEM™ 2 Development Board with dsPIC30F4011 sample device installed on-board
- CD with documentation and sample application programs
- Sample pack containing dsPIC30F3012 and dsPIC30F4013 devices

Host System Requirements

- PC-compatible system with an Intel® class 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™ 2 Development Board

Part Number	Description	Availability
DM300018	dsPICDEM™ 2 Development Board (Supports dsPIC30F2010, dsPIC30F2011, dsPIC30F3010, dsPIC30F3011, dsPIC30F3012, dsPIC30F3013, dsPIC30F3014, dsPIC30F4011, dsPIC30F4012 and dsPIC30F4013)	June 2005

dsPIC® Development Tools from Microchip

MPLAB® IDE	Free
MPLAB® Visual Device Initializer (included in MPLAB® IDE)	
MPLAB® C30 C Compiler	SW006012
MPLAB® ICD 2 In-Circuit Debugger/Programmer	DV164005, DV164007
MPLAB® ICE 4000	ICE4000
MPLAB® PM3 Universal Device Programmer	DV007004
dsPIC30F Math Library (included in download of MPLAB® C30 C Compiler)	Free
dsPIC30F DSP Library	Free
dsPIC30F Peripheral Library	Free
dsPICworks™ Data Analysis and DSP Software	Free
dsPIC® Digital Filter Design	SW300001
dsPIC30F Soft-Modem Library	SW300002/3/4/5
dsPIC® Speech Recognition Library	SW300010/11/12
dsPIC® Symmetric Key Embedded Encryption Library	SW300050
dsPIC® Asymmetric Key Embedded Encryption Library	SW300055
dsPIC30F Acoustic Echo Cancellation Library	SW300060
dsPIC30F Noise Suppression Library	SW300040
CMX-RTX™ for dsPIC30F	SW300031
CMX-Tiny+™ for dsPIC30F	SW300032
CMX-Scheduler™ for dsPIC® Devices	Free at www.cmx.com
dsPICDEM™ Starter Demonstration Board	DM300016
dsPICDEM™ 28-Pin Starter Demonstration Board	DM300017
dsPICDEM™ 1.1 General Purpose Development Board	DM300014
dsPICDEM™ MC1 Motor Control Development System	DM300020
dsPICDEM.net™ 1 Connectivity Development Boards	DM300004-1
dsPICDEM.net™ 2 Connectivity Development Boards	DM300004-2

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