

dsPICDEM.net™ 1 and dsPICDEM.net 2 Connectivity Development Boards

Summary

The dsPICDEM.net 1 and dsPICDEM.net 2 connectivity development boards provide the application developer a basic connectivity platform for developing and evaluating various connectivity solutions, implementing TCP/IP protocol layers, combined with V.22bis/V.22 ITU specifications across PSTN or Ethernet communication channels.

The board comes with an ITU-T compliant V.22bis/V.22 modem demonstration program loaded on the installed dsPIC30F6014 device. This program enables the user to connect and transfer data between the dsPIC® Soft Modem (dsPIC SM) and an ITU-T compliant reference modem. Control of the dsPIC SM is supported via AT commands communicated using the on-chip UART channel.

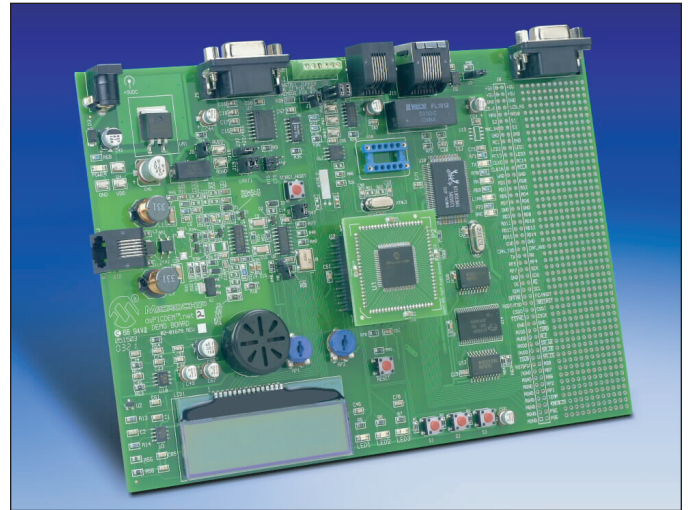
Also included are CMX-Micronet WEB and FTP Server demonstration files which when downloaded into the dsPIC30F6014 device demonstrate two TCP/IP stack-based applications over the Ethernet Datalink layer.

Finally, a simple tutorial written in C code is provided which can be run with both MPLAB® ICD 2 and MPLAB ICE 4000 development tools.

Features

Key features of the dsPICDEM.net 1 and dsPICDEM.net 2 Connectivity Development Boards include:

- dsPIC30F6014 Plug-in Sample
- 10-Base T Ethernet MAC and PHY Interface
- PSTN Interface with DAA/AFE Chipset
- Serial Communication Channels Interface (UART and CAN)
- External I²C™ EEPROM Memory for Storing Constants
- External 64K x 16 SRAM Memory
- General Purpose Prototyping Area with Expansion Header
- 2 x 16 LCD Display
- MPLAB ICD 2 and MPLAB ICE 4000 Emulator Support
- LED's, Switches and Potentiometers
- Temperature Sensor



Package Contents

- dsPICDEM.net Connectivity Board with Pre-programmed dsPIC30F Device
- RS-232 Cable
- CAT 5 Crossover 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



MICROCHIP

Development Systems

Microchip Technology Incorporated

Part Numbers and Ordering Information:

dsPICDEM.net 1 and dsPICDEM.net 2 Connectivity Development Boards

Part Number	Description	Availability
DM300004-1	dsPICDEM.net 1 Development Board Supports dsPIC30F5013 and dsPIC30F6014 devices. (Supporting FCC/JATE PSTN, Ethernet NIC)	Q4 2003
DM300004-2	dsPICDEM.net 2 Development Board Supports dsPIC30F5013 and dsPIC30F6014 devices. (Supporting CTR-21 PSTN, Ethernet NIC)	Q4 2003

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
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San Jose	(408) 436-7950	China – Shunde	86-765-8395507		
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