

PICDEM™ CAN-LIN 1, 2 and 3 Demonstration Boards

Summary

Microchip offers three similar PICDEM CAN-LIN demonstration boards to support different PIC® microcontroller devices. All demonstrate the main features of the devices, especially those features of the integrated CAN module. In addition to the CAN network, the board also employs a LIN sub-network using Microchip's PIC16C43X and PIC18F1320 device families.

Each PICDEM CAN-LIN demonstration board includes both firmware and PC software for simulating a CAN network. The firmware comes pre-programmed on the sample device. The PC software and documentation are furnished on a CD ROM.

Features

PICDEM CAN-LIN 1 supports:

- 68-pin PLCC PIC18C658 and 84-pin PLCC PIC18C858 devices
- 20-pin PDIP PIC16C432 with integrated LIN Bus transceiver

PICDEM CAN-LIN 2 supports:

- 28-pin SDIP PIC18F258 and PIC18F2680/2682/2685 devices
- 40-pin PDIP PIC18F458 and PIC18F4680/4682/4685 devices
- 20-pin PDIP PIC16C432 with integrated LIN Bus transceiver

PICDEM CAN-LIN 3 supports:

- 64-pin TQFP PIC18F6680 and 80-pin TQFP PIC18F8680 devices
- 20-pin SSOP PIC18F1320 and MCP201 LIN Bus transceiver

The kits all share the following common features:

- On-board digital and analog +5V regulator for direct input from 12V AC/DC wall adapter
- Two on-board CAN nodes and optional external CAN bus connectors
- On-board LIN Bus master and slave node
- Optional external LIN Bus connector
- DB-9 RS-232 interface to IBM compatible PC
- Two optional In-Circuit Serial Programming™ (ICSP™) MPLAB® ICD 2 connectors
- Optional header for LCD panel
- CAN Bus monitoring software for PC
- Devices preprogrammed with CAN Bus monitor firmware
- Generous prototyping area



Package Contents

- PICDEM CAN-LIN PCB
- Serial cable
- Sample programs, application notes and user's guide (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



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Part Numbers and Ordering Information:

PICDEM CAN-LIN 1 Demonstration Board supports: PIC18C658, PIC18C858, PIC16C432/433

PICDEM CAN-LIN 2 Demonstration Board supports: PIC18F258, PIC18F2680/2682/2685, PIC18F458, PIC18F4680/4682/4685, PIC16C432/433

PICDEM CAN-LIN 3 Demonstration Board supports: PIC18F6680, PIC18F8680, PIC18F1320, MCP201

PICDEM™ CAN-LIN Demonstration Boards

| Part Number | Description | Price | Availability |
|-------------|--------------------------------------|-------|--------------|
| DM163007 | PICDEM CAN-LIN 1 Demonstration Board | \$199 | Now |
| DM163011 | PICDEM CAN-LIN 2 Demonstration Board | \$199 | Now |
| DM163015 | PICDEM CAN-LIN 3 Demonstration Board | \$199 | Now |

Development Tools from Microchip

| Part Number | Development Tool | Description |
|-------------|---|---|
| SW007002 | MPLAB® IDE – includes: MPASM™ Assembler, MPLINK™ Linker/MPLIB™ Librarian and MPLAB SIM Software Simulator | Integrated Development Environment (download free of charge at www.microchip.com) |
| SW006011 | MPLAB C18 C Compiler | C Compiler for PIC18CXXX MCUs |
| SW006012 | MPLAB C30 C Compiler | C Compiler for dsPIC30F MCUs |
| DV164101 | PICKit™ 1 Flash Starter Kit | Flash Starter Kit |
| DV164120 | PICKit 2 Starter Kit | Starter Kit |
| DV164005 | MPLAB ICD 2 | In-Circuit Debugger |
| ICE2000 | MPLAB ICE 2000 Modular In-Circuit Emulator | Full-featured Modular In-Circuit Emulator for PIC12, PIC16 and PIC18 MCUs |
| ICE4000 | MPLAB ICE 4000 Modular In-Circuit Emulator | Full-featured Modular In-Circuit Emulator for PIC18 MCUs and dsPIC® DSCs |
| DV003001 | PICSTART® Plus Programmer | Entry-level Development Kit with Programmer |
| DV007004 | MPLAB PM3 Universal Device Programmer | Full-featured Modular Device Programmer |
| DM303006 | KEELOQ® Security ICs Evaluation Kit II | Encoder/Decoder Evaluator |
| DV103003 | microID® Developer's Kit | 13.56 MHz Anticollision microID Developer's Kit for MCRF355 and MCRF360 |



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www.microchip.com/devtools

Visit our web site for additional product information and to locate your local sales office.

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