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

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

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