# PICDEM<sup>™</sup> CAN-LIN 1, 2 and 3 Demonstration Boards

## **Summary**

Microchip offers three similar PICDEM CAN-LIN demonstration boards to support different PICmicro® 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 devices
- 40-pin PDIP PIC18F458 and PIC18F4680 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 ICSP 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, PIC18F458, PIC18F4680, 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						
MPLAB® IDE	Integrated Development Environment (IDE)					
MPASM™ Assembler	Universal PICmicro® Macro-Assembler					
MPLINK™ Linker/MPLIB™ Librarian	Linker/Librarian					
MPLAB SIM Simulator	Software Simulator					
MPLAB C18	C Compiler for PIC18CXXX MCUs					
MPLAB C30	C Compiler for dsPIC30F MCUs					
PICkit™ 1	Flash Starter Kit					
MPLAB ICD 2	In-Circuit Debugger					
MPLAB ICE 2000	Full-featured Modular In-Circuit Emulator for PIC12, PIC16 and PIC18 MCUs					
MPLAB ICE 4000	Full-featured Modular In-Circuit Emulator for PIC18 and dsPIC MCUs					
PICSTART® Plus Programmer	Entry-level Development Kit with Programmer					
MPLAB PM3 Device Programmer	Full-featured, Modular Device Programmer					
KeeLoo® Evaluation Kit	Encoder/Decoder Evaluator					
microID® Developer's Kit	125 kHz and 13.56 MHz RFID Development Tools					

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