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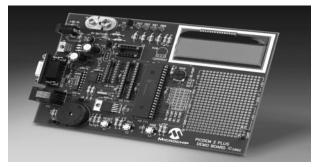


Microchip - DM163022- DM163022 Microcontroller Development Kit

Product Overview:

PICDEM. 2 Plus demonstration board from Microchip Technology Incorporated. The PICDEM 2 Plus is a simple board that demonstrates the capabilities of the 18, 28 and 40-pin PIC16 and PIC18 devices.

The PICDEM 2 Plus can be used stand-alone with a programmed part, with an in-circuit emulator (for example, MPLAB® ICE) or with an in-circuit debugger (such as MPLAB ICD 2). Sample programs are provided to demonstrate the unique features of the supported devices.



Kit Contents:

The PICDEM 2 Plus kit comes with the following:

- PICDEM 2 Plus demonstration board
- Sample devices
- CD-ROM that contains:
 - Sample programs
 - PICDEM. 2 Plus User's Guide
 - Application Notes

Key Features:

The PICDEM 2 Plus demonstration board has the following hardware features:

- 18, 28 and 40-pin DIP sockets (although three sockets are provided, only one device may be used at a time)
- On-board, +5V regulator for direct input from 9V, 100 mA AC/DC wall adapter or 9V battery, or hooks for a +5V, 100 mA regulated DC supply
- RS-232 socket and associated hardware for direct connection to an RS-232 interface
- In-Circuit Debugger (ICD) connector
- 5 k₁ pot for devices with analog inputs

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- Three pushbutton switches for external stimulus and Reset
- Green power-on indicator LED
- Four red LEDs connected to PORTB
- Jumper J6 to disconnect LEDs from PORTB
- 4 MHz, canned crystal oscillator
- Unpopulated holes provided for crystal connection
- 32.768 kHz crystal for Timer1 clock operation
- Jumper J7 to disconnect on-board RC oscillator (approximately 2 MHz)
- 32K x 8 Serial EEPROM
- LCD display
- Piezo buzzer
- Prototype area for user hardware
- Microchip TC74 thermal sensor

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DM163022	Microchip	3992925	73C6547

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
PIC18F4520-I/PT	Microchip	Microphin IC, SM 8-BIT FLASH	1528362	89H0676
		MCU,WAFFLE80	1526362	0900070
PIC16F877A-I/PT	Miorophin	8BIT FLASH MCU, SMD,	9761454	89C2873
PIC 10F0//A-I/P1	Microchip	16F877, TQFP44		

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DV164036	Microchip	PICDEM 2 Plus Demo Board w/ MPLAB ICD 3	PIC18F4520	1771303	25R7376
DV164122	Microchip	ANALYSER KIT, SERIAL, PICKIT	PIC16F886	1439719	26M9206
DM183032	Microchip	KIT, DEMO BOARD, PICDEM PIC18	PIC18	1615691	07P9073

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Document List:

Datasheets:

Part Number	Description	Size
DM163022	PICDEM 2 PLUS Demonstration Board User's Guide	1.24MB
PIC18F4520	PIC18F2420/2520/4420/4520 Data Sheet	6.20MB
PIC16F877A	PIC16F87XA Datasheet	4.2KB

Application Notes:

File Name	Size
AN1066 - MiWi Wireless Networking Protocol Stack	635KB
AN1095 - AN1095, Emulating Data EEPROM for PIC18 and PIC24 MCUs and dsPIC DSCs	369KB
AN1204 - Microchip MiWi P2P Wireless Protocol	371KB
AN1229 - Class B Safety Software Library for PIC MCUs and dsPIC DSCs	399KB
AN1310 - High-Speed Boot loader for PIC16 and PIC18 Devices	484KB

Hardware & Software:

File Name	Size
PIC18F Development Tools Product Overview	97KB
PICDEM 2 Plus sample files (latest version: RoHS update)	238KB
PICDEM 2 Plus Sample Files (old version)	37KB
PICDEM 2 Plus Schematics (latest version: RoHS update)	113KB
AN937 - Implementing a PID Controller Using a PIC18 MCU	267KB
AN953 - Data Encryption Routines for PIC18 Microcontrollers	356KB
AN1229 Source Code	133KB

Others Resources:

File Name	Size
Corporate Product Selector Guide	536KB
MPLAB Integrated Development Environment (IDE) Brochure	371KB
AN914 - Dynamic Memory Allocation for the MPLAB® C18 C Compiler	-

