Microchip - DV164035 - Development Kit

Product Overview:

The PICDEM™ Lab Development Kit is designed to provide a comprehensive development and learning platform for Microchip's FLASH-based 6-, 8-, 14-, 18- and 20-pin 8-bit PIC® microcontrollers.

Geared toward first-time PIC® microcontroller users and students, the PICDEM™ Lab Development Kit is supplied with five of our most popular 8-bit PIC® microcontrollers and a host of discrete components to create instructive applications.

Expansion headers provide complete access/connectivity to all pins on the connected PIC® microcontrollers and all mounted components.

A solderless prototyping block is included for quick exploration of the application examples described in the “hands-on” labs included in the user’s guide. These labs provide an intuitive introduction to using common peripherals and include useful application examples, from lighting an LED to some basic mixed signal applications using the free HI-TECH C® PRO for the PIC10/12/16 MCU Family Lite Mode Compiler.

Alternately, a companion guide featuring the free version of Matrix Multimedia’s Flow code V3 Visual Programming Environment (VPE) provides a flowchart-based method of implementing a series of introductory labs.

Kit Contents:

- PICDEM™ Lab Development Board
- Component kit
- PICkit™ 2 Programmer/ Debugger
- CD containing a comprehensive user guide, labs, application examples and a number of additional tutorials.

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DV164035	Microchip	1664878	19P0223

Associated Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
IRFD9020PBF	Vishay	MOSFET	P Channel	9765441	19K8163
IRFD010PBF	Vishay	MOSFET	N Channel	9765417	19K8149

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DM183022	Microchip	KIT, PICDEM HPC EXPLORER BOARD	PIC18F8722	1770583	04M6007
MA180023	Microchip	PIC18F46J11 PIM Plug-in Modules	Stand-alone or w/ HPC(DM183022) or PIC18(DM183032)	1706355	14R8813
DM183032	Microchip	KIT, DEMO BOARD, PICDEM PIC18	PIC18	1615691	07P9073
DM163035+TEFLCST3	Microchip	DV164035 - KIT, EVALUATION, ICD3	PICxx MCUs/ PICxx DSCs	1711387	15R0866
DV164131	Microchip	PICkit 3 Debug Express	Flash based PIC MCUs	1686530	50P9695
AC244023	Microchip	ADAPTER, PROC EXT PAK,	PIC18F13K50, PIC18F14K50	1699834	04R7529

		PIC18F1XK50			
PG164120	Microchip	PROGRAMMER, PICKIT 2	PICKIT	9847170	51M8937

Document List:

Datasheets:

Part Number	Description	Size
PICDEM	PICDEM Lab Development Kit	2314KB
PICDEM flow code	PICDEM Lab Flowcode Companion Guide	4596KB
PIC18F46J50	PIC18F46J50 Family Data Sheet	8.31MB
PIC18F4XXXX	PIC18F2XJXX/4XJXX Family Programming Specification	583KB
PIC18F13K50/PIC18LF1XK50	PIC18F1XK50/PIC18LF1XK50 Flash Memory Programming	501KB
PIC18F24XX	PIC18F2450/4450 Data Sheet	5.54MB

Application Notes:

File Name	Size
PICDEM Lab Development Kit User's Guide (HI-TECH version)	1671KB
AN1212 - Using USB Keyboard with an Embedded Host	485KB
AN950 - Power Management for PIC18 USB Microcontrollers with nanoWatt Technology	259KB

Hardware & Software:

File Name	Size
PICDEM Lab Development Kit Lab Directory and Solutions (Flow code version)	244KB
PICDEM Lab Development Kit Lab Directory and Solutions (HI-TECH C version)	442KB
Low Pin-Count USB Development Kit Project Labs	155kB
AN1229 Source Code	342KB
PIC32 USB Device/Embedded Host Software Stack v1.04	4924KB

Others Resources:

File Name	Size
8-bit Microcontroller Product Selector Guide	2637KB
Solutions for Medical Applications	1.52MB

Microchip Application Libraries	76921KB