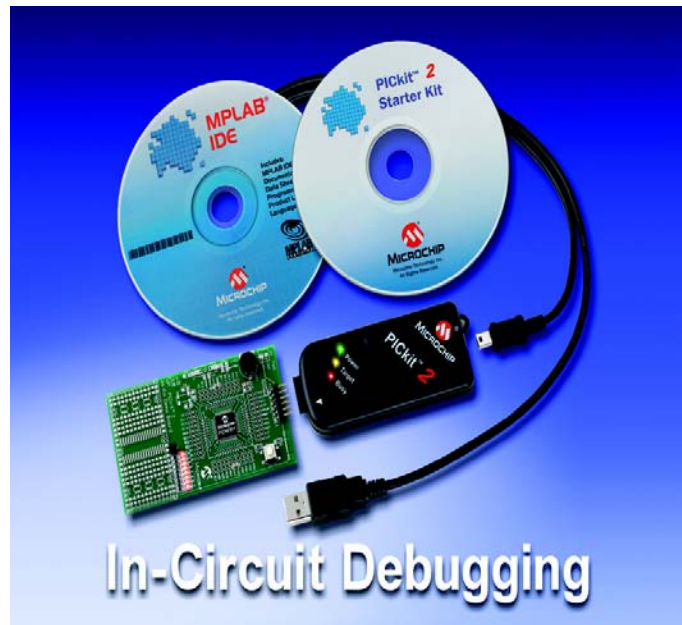# Microchip - DV164121+TEFLCST3 Debugger Kit

Product Overview:

PICkit™ 2 Debug Express allows in-circuit debugging on selected PIC® microcontrollers. In-circuit debugging allows the designer to run, halt and single step the program while the PIC microcontroller is embedded in the hardware. Once halted, the file registers may be examined and modified. This greatly assists the designer in debugging the firmware and hardware together.

The PICkit 2 Debug Express is a low-cost development kit with an easy to use interface for debug as well as programming. It comes complete with a development board that contains Microchip's 44-pin PIC16F887 Flash microcontroller. This starter kit is designed to help developers get up to speed quickly using PIC® microcontrollers and provides everything needed to program, evaluate and develop applications. Instructions are provided in a series of twelve lessons that cover I/O, Interrupts, A/D Converters, Data Tables and Timers with an additional lesson covering debugging features. All source code files for the lessons are furnished.

Kit Content:

- PICkit 2 Device Programmer
- 44-pin Demo Board with PIC16F887 MCU
- PICkit CD ROM
- MPLAB IDE (Integrated Development Environment) CD ROM
- USB Mini Interface Cable

Key Features:

- 44-pin Demo Board with PIC16F887 Mid-Range PIC microcontroller
- Easy to use Windows® programming of select Flash based PIC microcontrollers
- Twelve sequential lessons written in Assembly demonstrate how to use Microchip's 20-pin Flash family of microcontrollers

- Lesson included for the Debug Features (PIC16F887)

- Technical documentation CD including

  - PICkit 2 User's Guide
  - 44-Pin Demo Board User's Guide
  - Tips 'n Tricks Booklets
  - selected Application Notes

- FREE! Microchip's MPLAB IDE software for a complete code development environment
- FREE! HI-TECH PICC™ LITE C Compiler (contained on the MPLAB CD)
- FREE! CCS PCM Mid-Range C Compiler demo version

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DV164121+TEFLCST3	Microchip	1711385	15R0879

Associated Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DM164120-2	Microchip	DEMO KIT, 44-PIN, PICKIT2	PIC16F	1294834	16M5773
PIC16F887-E/PT	Microchip	MCU, 8-BIT, 14K FLASH, TQFP44	PIC16F	1579592	08N6580

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DV164122	Microchip	PICkit Serial Analyzer	PIC16F886	1439719	26M9206
DV164121	Microchip	DEBUG KIT, EXPRESS, PICKIT2	PIC12F5xx, PIC12F6xx, PIC16F5xx	1340278	16M6058
PG164120	Microchip	PROGRAMMER, PICKIT 2	PICKIT	9847170	51M8937
DV164035	Microchip	DV164035 - KIT, EVALUATION, ICD3	PICxx MCUs/ PICxx DSCs	1664878	19P0223

DV164131	Microchip	PICkit 3 Debug Express	Flash based PIC MCUs	1686530	50P9695
DM164120-1	Microchip	DEVELOPMENT KIT, LOW PIN COUNT	PIC16F690	1439837	69K0012
DM164120-3	Microchip	KIT, PICKIT 2 28-PIN DEMO BOARD	PICkit 2 28-Pin Demo Board	1555681	39M8069
DM164120-4	Microchip	KIT, PICKIT 2 18P DEMO BOARD	PICkit 2 18-Pin Demo Board	1676247	07P9070

Document List:

Datasheets:

Part Number	Description	Size
PICDEM	PICDEM Lab Development Kit	2314KB
PICDEM flow code	PICDEM Lab Flowcode Companion Guide	4596KB
PICkit	Low Cost Development Tools Guide	1313KB
PICkit	Low Pin Count User's Guide	452KB
PIC16F887	PIC16F882/883/884/886/887 Data Sheet	5.16MB
PICkit 2 kit demo info	PICkit 2 64_80-Pin PIC18J Demo Board Info	321KB
PICkit 2 microcontroller programmer user guide	PICkit 2 Microcontroller Programmer User's Guide	2126KB

Application Notes:

File Name	Size
28-Pin Demo Board User's Guide	291KB
44-Pin Demo Board User's Guide	519KB
AN1066 - MiWi Wireless Networking Protocol Stack	634KB
AN1072 - Measuring VDD Using the 0.6V Reference	280KB
Measuring VDD Using the 0.6V Reference	15KB
AN1101 - Introduction to Capacitive Sensing	442KB
AN1102 - Layout and Physical Design Guidelines for Capacitive Sensing	666KB
AN1103 - Software Handling for Capacitive Sensing	513KB
PICDEM Lab Development Kit User's Guide (HI-TECH version)	1671KB
AN950 - Power Management for PIC18 USB Microcontrollers with nanoWatt Technology	259KB

element14 Your Electronic Engineering Resource

Hardware & Software:

File Name	Size
Header Specification	785KB
PICkit 2 64/80-Pin PIC18J Demo Files	2KB
PICkit 2 64/80-Pin PIC18J Demo Schematic	173KB
PICDEM Lab Development Kit Lab Directory and Solutions (Flowcode version)	244KB

Others Resources:

File Name	Size
8-bit Microcontroller Product Selector Guide	2637KB
PIC18F Development Tools Product Overview	97KB
PICkit 2 Debug Express Product Overview	511KB
PICkit 2 Logic Tool User Guide	489KB
PICkit 2 Programmer-To-Go User Guide	491KB
PICkit 2 Starter Kit Product Overview	75KB