



## Microchip - DV16412 - PICkit 2 Starter Kit

### Product Overview:

The PICkit 2 Starter Kit contains a PICkit 2 Microcontroller Programmer and a PICkit 2 Low Pin Count Demo Board containing a PIC16F690 PDIP for getting started with programming baseline and midrange flash microcontrollers. PICkit 2 takes advantage of Microchips Full-Speed USB device, thereby significantly speeding up development programming. The PICkit 2 Low Pin Count Demo Board supports 8-, 14-, and 20-pin PICmicros. In addition to the PIC16F690, the board comes with 4 LEDs, a pushbutton, and a pot. Also included are 12 lessons to help get developers up to speed quickly on programming PICmicro MCUs.



### Kit Content:

- PICkit 2 Development Programmer
- Low pin count demoboard with 20-pin PIC16F690 microcontroller
- PICkit 2 starter kit CD ROM
- MPLAB IDE (Integrated Development Environment) CD ROM
- USB Mini Interface Cable
- Software and Hardware "Tips 'n Tricks" for PIC Microcontrollers

### Key Features:

- Low pin count demo board supporting 8/14/20-pin mid range PIC microcontrollers
- Easy to use Windows Programming selected Flash based PICmicro Microcontrollers
- 20-pin PIC16F690 Midrange microcontroller

Note: Requires the AC162061 ICD Header and AC164110 adapter to debug.

- A series of 12 Lessons on assembly programming that cover I/O, A/D converters, timers, interrupts, and data tables (All source code files are provided)
- Getting Started in PICBASIC PRO tutorial on developing and debugging in BASIC with a FREE microEngineering Labs PICBASIC PRO™ Demo Compiler (contained on the PICkit 2 CD)
- HI-TECH PICC™ LITE C Compiler with MPLAB IDE.\

- FREE! Microchip's MPLAB IDE software for a complete code development.

## Ordering Information:

### Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DV164120	Microchip	9847162	44K0230

### Associated Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
PIC16F690-E/P	Microchip	MCU, 8-BIT, 7K FLASH, PDIP20	PIC16F	1579589	56J7545
DM164120-1	Microchip	Development Tools - PICKIT 2 Low pin count demo board	PIC16F	1439837	69K0012

### 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
PIC16F887	<a href="#">PIC16F882/883/884/886/887 Data Sheet</a>	5.16MB

### **Application Notes:**

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

### **Hardware & Software:**

File Name	Size
<a href="#">Header Specification</a>	785KB
<a href="#">PICkit 2 64/80-Pin PIC18J Demo Files</a>	2KB
<a href="#">PICkit 2 64/80-Pin PIC18J Demo Schematic</a>	173KB
<a href="#">PICDEM Lab Development Kit Lab Directory and Solutions (Flowcode version)</a>	244KB
<a href="#">PICDEM Lab Development Kit</a>	2314KB
<a href="#">PICDEM Lab Flowcode Companion Guide</a>	4596KB

### **Others Resources:**

File Name	Size
<a href="#">8-bit Microcontroller Product Selector Guide</a>	2.63MB
<a href="#">PIC18F Development Tools Product Overview</a>	97KB
<a href="#">PICkit 2 Debug Express Product Overview</a>	511KB
<a href="#">PICkit 2 Logic Tool User Guide</a>	489KB

<a href="#">PICkit 2 Programmer-To-Go User Guide</a>	491KB
<a href="#">PICkit 2 Starter Kit Product Overview</a>	75KB

