MICROCHIP

Microchip - DV164131 - Evaluation Kit

Product Overview:

Microchip's PICkit 3 In-Circuit Debugger/Programmer uses in-circuit debugging logic incorporated into each chip with Flash memory to provide a low-cost hardware debugger and programmer. In-circuit debugging offers these benefits:

- Low cost
- Minimum of additional hardware needed for debug
- Expensive sockets or adapters are not required

PICkit™ 3 Debug Express
(Part # DV164131)

Kit Content:

- PICkit 3 Debugger/Programmer
- 44-pin demo board with a PIC18F45k20 microcontroller
- All hookup cables
- and a CDROM that includes the following:

  - PICkit 3 User's Guide
  - A series of 12 Lessons on C programming that cover I/O, A/D converters, timers, interrupts, and data tables (All source code files are provided)
  - A Debugging Tutorial on using the PICkit 3 as a debugger with the MPLAB IDE
  - A FREE CCS compiler for the PIC18F45k20. (2kWord Program Limit).
  - HI-TECH C PRO for PIC10/12/16 MCU Family in Lite mode.
  - Microchip's MPLAB IDE software for a complete code development environment

Key Features:

- USB (Full speed 12 Mbits/s interface to host PC)
- Real-time execution
- MPLAB IDE compatible (free copy included)
- Built-in over-voltage/short circuit monitor
- Firmware upgradeable from PC/web download
- Totally enclosed
- Supports low voltage to 2.0 volts (2.0v to 6.0v range)
- Diagnostic LEDs (power, busy, error)

- Read/write program and data memory of microcontroller
- Erase of program memory space with verification
- Freeze-peripherals at breakpoint

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DV164131	Microchip	1686530	50P9695

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
PIC18F45K20-I/P	Microchip	MCU 8BIT 32K FLASH, PDIP40	1439588	88K6041
PG164130	Microchip	PROGRAMMER, IN-CCT DEBUGGER, PICKIT 3	1771323	51R7060
DV164136	Microchip	PIC18F EXP BOARD W/ PICKIT3	1778497	NA
AC164110	Microchip	ADAPTER, RJ-11 TO ICSP	1540971	16M5240

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DV164035	Microchip	KIT, EVALUATION, ICD3	PICxx MCUs/ PICxx DSCs	1664878	19P0223
DV164131-XLP	Microchip	PICKIT 3-XLP/NANOWATT BUNDLE	PIC10/12/16	1770582	07R8155
PG164120	Microchip	PICkit 2 Microcontroller Programmer	PIC Micro MCU	9847170	51M8937

Document List:

Datasheets:

Part Number	Description	Size
PIC18F45K20	PIC18F2XK20/4XK20 28/40/44-Pin Flash MCU with 10-Bit A/D and nanoWatt Technology	7MB
PIC18F4XK20	PIC18F4XK20 Starter Kit User's Guide	831KB
Header Specification	Header Specification	785KB
PICkit 3	PICkit 3 Debug Express Lessons User's Guide	3265KB

Application Notes:

File Name	Size
AN1066 - MiWi Wireless Networking Protocol Stack	634KB
AN1095 - AN1095, Emulating Data EEPROM for PIC18 and PIC24 MCUs and dsPIC DSCs	368KB
AN1204 - Microchip MiWi P2P Wireless Protocol	370KB
AN1229 - Class B Safety Software Library for PIC MCUs and dsPIC DSCs	398KB
AN1267 - nanoWatt & nanoWatt XLP(TM) Technologies: An Introduction to Microchip's Low Power devices	360KB

Hardware & Software:

File Name	Size
DEE Emulation 8-bit v1.1.1	312KB
DEE Emulation 16-bit v1.1.2	324KB
AN1229 Source Code	342KB
PIC24F Demo Files for Explorer 16	46KB
PIC24F16KA102 Demo Files for Explorer 16	278KB
PIC24H Demo Files for Explorer 16	24KB

Others Resources:

File Name	Size
In-Circuit Debugger Design Advisory	182KB
AC162088 Errata Change Instructions	84KB
PICkit 3 Set Up Poster	2235KB