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Part Number: PG164130

Documentation &amp; Software

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

The PICkit 3 can now also reprogram any PIC microcontroller with a simple push of a button: [Find out more about Programmer-To-Go function](#)

**Note:** The PICkit 3 In-Circuit Debugger/Programmer is NOT a production programmer. It should be used for development purposes only.

The MPLAB PICKit 3 allows debugging and programming of PIC® and dsPIC® Flash microcontrollers at a most affordable price point using the powerful graphical user interface of the **MPLAB X Integrated Development Environment (IDE)**. The MPLAB PICKit 3 is connected to the design engineer's PC using a full speed USB interface and can be connected to the target via a Microchip debug (RJ-11) connector (compatible with MPLAB ICD 2, MPLAB ICD 3 and MPLAB REAL ICE). The connector uses two device I/O pins and the reset line to implement in-circuit debugging and In-Circuit Serial Programming™.

If you need older software for programming with your PICkit 3, please visit our [archives](#).

### Header Information

Some 8-, 14- and 18-pin devices use small header boards with a special MCU for debugging. This special MCU has extra pins for PICKIT 3 communication and therefore allows the use of all pins on the part for the application. The header board is not used or needed for programming. However, when debugging these devices the header must be used. See the "Header Specification" document below.



Features	Package Contents	Host System Requirements	Related Tools
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- 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
- Program up to 512K byte flash with the Programmer-to-Go
- Header Information

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Documents	Last Updated	Size	
MPLAB X IDE Release Notes	2/26/2015 8:34:11 AM	3MB	
MPLAB X- Using PICKit 3 In-Circuit Debugger Poster	7/7/2014 11:45:45 AM	2MB	
Emulation Extension Pak (EEP) and Emulation Header User Guide	1/30/2014 4:45:46 PM	864KB	
PICKit 3 In-Circuit Debugger/Programmer User's Guide	4/15/2013 4:35:52 PM	2MB	
Processor Extension Pak and Header Specification	6/21/2012 2:33:38 PM	1MB	
ETN 32 PICKit 3 Operation at Low Voltage - Modification	5/31/2011 1:10:30 PM	132KB	
Transition Socket Specification	3/25/2010 1:50:56 PM	688KB	