Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

MPLAB® PICkit™ 4
In-Circuit Debugger/Programmer

Summary

The MPLAB® PICkit™ 4 In-Circuit Debugger/Programmer allows fast and easy debugging and programming of PIC® Flash Microcontrollers (MCUs) and dsPIC®, Digital Signal Controllers (DSCs) using the powerful graphical user interface of MPLAB X Integrated Development Environment (IDE). The MPLAB PICkit 4 connects to your PC using a hi-speed 2.0 USB interface and can be connected to the target via the 8-pin single in-line header. The connector uses two device I/O pins and the reset line to implement in-circuit debugging and In-Circuit Serial Programming™ capability. An additional micro SD card slot and the ability to be self-powered from the target means you can take your code with you and program on the go.

The MPLAB PICkit 4 programs faster than its predecessor and comes ready to support PIC and dsPIC devices. Along with a wider target voltage, the MPLAB PICkit 4 supports advanced interfaces such as 4-wire JTAG and Serial Wire Debug with streaming Data Gateway, while being backward compatible for demo boards, headers and target systems using 2-wire JTAG and ICSP. The MPLAB PICkit 4 has the performance you need to program and debug today's devices, while adding new features that provide flexibility for the future.

Advantages

- Matches silicon clocking speed
  - Automatically programs as fast as the device will allow
- Target voltage of 1.20V to 5.5V
  - Wide target voltage supports a variety of devices
- Can supply up to 50 mA to the target
  - Option to be self-powered from the target (2.7V to 5.5V)
- Minimal current consumption at <100 µA from target
  - Portable USB-powered
  - Powered by a high-speed USB 2.0, no external power required
  - CE and RoHS-compliant
- 8-pin single in-line header
  - Supports advanced interfaces such as 4-wire JTAG and Serial Wire Debug with streaming Data Gateway

- Compatibility
  - Backward compatible for demo boards, headers and target systems using 2-wire JTAG and ICSP
- Programmer-to-Go (PTG) support*
  - SD card slot to hold program data
  - Program the target by pressing on the logo
- Cost effective
  - Features and performance at a fraction of the cost of comparable debugger/programmers
- Ease of maintenance and feature upgrade
  - Add new device support and features by installing the latest version of MPLAB X IDE, which is available as a free download at www.microchip.com/MPLABX

*Feature will be added with a firmware upgrade

MICROCHIP

Products Supported

The MPLAB PICkit 4 In-Circuit Debugger/Programmer supports most PIC MCUs and dsPIC DSCs, and firmware is continually be-ing upgraded to add support for new devices. For the most current list of supported parts, review the latest release notes located in MPLAB X IDE. As new device firmware is released, it can be downloaded free of charge at www.microchip.com.

Host System Requirements

- Available USB port
- Microsoft Windows® 7 or later, MAC OS X® and Linux® operating systems

Ordering Information

Part Number	Description	Availability
PG164140	**MPLAB® PICkit™ 4 In-Circuit Debugger/Programmer Kit** This kit includes: • One MPLAB PICkit 4 In-Circuit Debugger/Programmer • One USB Cable	Now

Other Development Tools from Microchip

Part Number	Development Tools	Description
SW006021-SUB	MPLAB XC8 C Compiler PRO Subscription License	30-day C Compiler License for 8-bit PIC® MCUs
SW006022-SUB	MPLAB XC16 C Compiler PRO Subscription License	30-day C Compiler License for 16-bit PIC MCUs and dsPIC® DSCs
SW006023-SUB	MPLAB XC32 C/C++ Compiler PRO Subscription License	30-day C Compiler License for 32-bit PIC MCUs
DM160228	Explorer 8 Development Kit	8-bit development platform targeted at new user
DM240001-2	Explorer 16/32 Development Board	Full-featured, modular development platform for 16-bit and 32-bit MCU

www.microchip.com/pickit4

MICROCHIP