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General Info | Detailed Information | Free Samples & Purchase Options | Related Info

All-in-one debugger/programmer solution for PICmicro? microcontrollers

The In-Circuit Debugger 2 (MPLAB? ICD 2) is the next advanced step for In-Circuit Debugging from Microchip. The ICD 2 allows debugging of selected flashed based Microchip microcontrollers using the powerful graphical user interface of the MPLAB? Integrated Development Environment (IDE) which is available as a free tool and included with each unit. It is the ideal tool for embedded controller designers working with a low tools budget.

The secret behind In Circuit Debugging is the two dedicate hardware lines (microcontroller pins used only during debugging mode) that allows in circuit serial programming (ICSP) of the device and debugging capability through proprietary firmware. The ICD 2 debug feature are built into the microcontroller and activated by programming the Debug Code into the target processor. There is some shared overhead expense which includes one stack level, some general purpose file registers and a small bank of program memory when in the debug mode.

The ICD 2 is firmware based using Flash technology, which allows it to be upgraded to support future microcontroller products and new features extending the tool life and making it a valued buy. Free firmware downloads are available from the Microchip web site at: www.microchip.com

Features:

- USB (Full Speed 2 M bits/s) & RS 232 interface to HOST PC
- Real time background debugging
- MPLAB IDE compatible (free copy included)
- Built in over voltage/short circuit monitor
- Firmware upgradable from PC/web download
- Totally enclosed
- Supports low voltage to 2.0 volts. (2.0 to 6.0 range)
- Diagnostic LED's (Power, Busy, Error)
- Reading/Writing memory space & stack of target microcontroller
- Erase of program memory space with verification
- Freeze on Halt

The MPLAB ICD 2 connects using USB or RS-232 between the design engineer's PC operating with MPLAB IDE and their product board (target) being developed. It acts as an intelligent interface/translator between the two allowing the engineer to look

into the active target board's microcontroller allowing real-time viewing of variables and registers using watch windows. A single break point can be set halting the program at a specific point and memory read/writes can also be accomplished. Additionally, the MPLAB ICD 2 can be used to program or reprogram the Flash-based microcontroller while installed on the board.

PIC FLASH Products Supported

The PIC FLASH microcontrollers currently supported with MPLAB ICD2 running on MPLAB v6.xx include:

PIC12F629	PIC12F675		
PIC16F630	PIC16F676		
PIC16F818	PIC16F819		
PIC16F870	PIC16F871	PIC16F872	
PIC16F873	PIC16F874	PIC16F876	PIC16F877
PIC16F873A	PIC16F874A	PIC16F876A	PIC16F877A
PIC18C601	PIC18C801		
PIC18F1220	PIC18F1320		
PIC18F2220	PIC18F2320	PIC18F4220	PIC18F4320
PIC18F452	PIC18F442	PIC18F252	PIC18F242
PIC18F458	PIC18F258	PIC18F448	PIC18F248
PIC18F6620	PIC18F6720	PIC18F8620	PIC18F8720

The MPLAB ICD 2 firmware is continually being updated. A review of the README.ID2 file located in MPLAB IDE is recommended for the most current list of supported parts. As new device firmware becomes available, free downloads will be available.

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