ICP2(HC)

High Current Production Quality In-Circuit Programmer

Softlog Systems

A member of the ICP family of high-speed, production-grade in-circuit programmers for Microchip microcontrollers, ICP2(HC) is specially designed for programming target boards with high current requirements. Combining robust performance with proven reliability, ICP2(HC) is a cost-effective solution for high throughput, non-stop assembly line operations.

- **High current operations (up to 1000mA)**
- **Fast programming**
- **Breakthrough, multi-layer IP protection (optional)**
- **Easy ATE integration**
- **PC or standalone operations**
- **Cost-effective pricing options**

Secure Programming

Utilizing Softlog Systems' patent-pending technology, this optional software feature provides several layers of protection that dramatically reduce the risk of unauthorized reconstruction of hex files. These include strong encryption of the hex file, a counter that ensures that the number of programmed devices does not exceed a pre-defined value, and a secure buffer of "invisible" hex data stored in ICP2(HC) protected memory.

Microchip-Oriented

Reflecting our focus and expertise in working with Microchip, ICP2(HC) is specifically designed for full compatibility with all Microchip microcontrollers and peripheral components. Provided with the Softlog GUI, ICP2(HC) also seamlessly integrates with MPLAB® IDE via plug-in.

ATE Compatible

Final test machine (FTM) functions in DLL allow the ICP2(HC) software to easily integrate with test equipment, working in either standalone mode or driven by a host system. Adaptable to bed-of-nails and other types of ATEs, ICP2(HC) helps you preserve your investment in test equipment.

24x7 Support

We understand the importance of zero downtime on your assembly line. Softlog's technical support engineers are available round-the-clock to provide you with immediate solutions to operational and maintenance issues which may arise.

www.softlog.com

ICP2(HC)

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High-Speed, Compact Programming Device

- Designed for in-circuit (ICSP™) programming of 8-bit PIC® MCUs, 16-bit PIC® MCUs & dsPIC® DSCs (optional), 32-bit PIC® MCUs (optional), Keeloq® encoders (optional) and serial EEPROMs
- On-board 1MB flash memory for non-volatile storage of hex, configuration and serialization files
- Multiple serialization schemes:
  - Sequential, random, pseudo-random and user file
  - 1 to 8 bytes, automatic "retlw"
- Tests Vdd and Vpp for overload with indication by software
- Dimensions: 175 x 85 x 35mm

Programmable Hardware

- Remote programming via 3 lines: Go/Pass/Fail
- Programmable Vdd (2.0 to 5.5V) and Vpp (2.0 to 13.5V)
- Programmable delay between Vdd and Vpp (0.1 to 250ms)
- Programmable clock/data speed (500KHz to 10MHz)
- Vdd current: up to 1000mA
- Vpp current: up to 100mA
- Clock/data current: up to 100mA
- Programmable Vdd source (ICP2(HC) or target)
- Prevents damage to connected microcontroller in case of power ON and power OFF

Easy-to-Use Software

- Windows® DLL/Command line functions for automatic programming (optional)
- Secure programming feature including hex file encryption, counter and secure buffer (optional)
- Seamless plug-in integration with MPLAB® IDE
- Standalone operation
- Field firmware upgrade (built-in bootloader)

Host System Requirements

- Windows®-95/98/2000/ME/XP/NT/Vista/7
- USB or RS-232 port
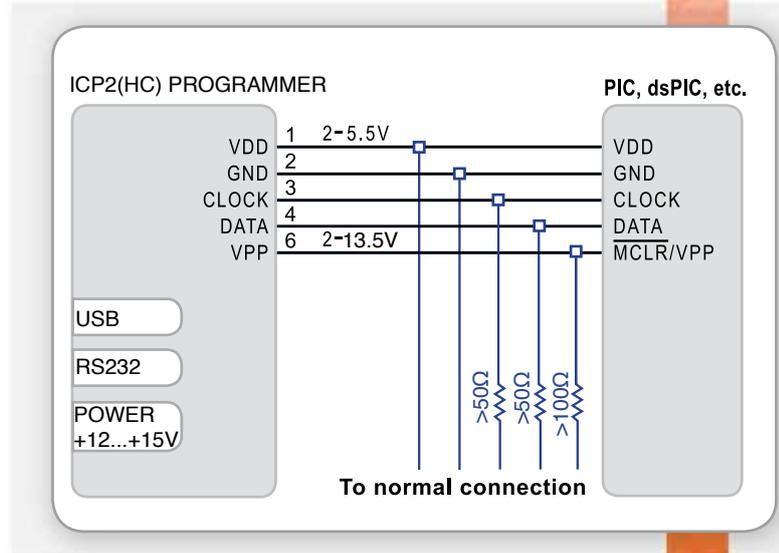
In-circuit programming connection
(high current requirements)

About Softlog Systems

Softlog Systems specializes in In-Circuit Serial Programming (ICSP™) for Microchip microcontrollers. Since 1998, our high-performance, cost-effective ICSP™ solutions have been used to manufacture millions of products worldwide. Leveraging our technical know-how and extensive field experience, Softlog Systems' ICP family of production-grade programmers reduce manufacturing costs and accelerate time-to-market.

Recognized Microchip Third-Party Tool Provider