USB-ICP

USB-ICP–80C51ISP

USB In-Circuit Programmer

USB-ICP supports In-System Programming (ISP) on Philips 80C51 Flash based microcontroller families. In-System Programming uses a two-wire serial interface to program and erase ISP enabled microcontroller devices without removing them from the system. The ISP function uses only six pins: VCC, GND, RXD, TXD, PSEN- and RESET.   A small connector is all that is needed to interface your ISP application to the USB-ICP programmer.

Highlights

- USB port powered so no external Power Supply required

- Supports USB 2.0

- Plugs directly into any standard USB Port – great for laptops

- Supports Philips' P89C51 Flash family of microcontrollers

- Works with Philips' free Flash Magic software that can be downloaded from the web

- USB-ICP Kit Includes:

    ♦ USB-ICP dongle

    ♦ 18" cable allowing direct connection to the user's application

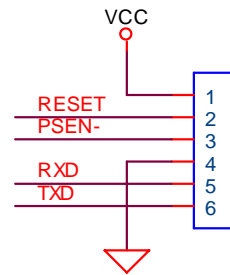   ♦ ISP design guide for the user's target board

Technical Details

USB-ICP uses a standard RJ-45 for connection to the target cable.

Indicator LEDs
Green – "Link" Indicates the USB-ICP has been configured by the host PC

Yellow –"ACT" indicates USB Activity (Rx/Tx)

Target Schematic

VCC

RESET — 1
PSEN- — 2
         3
RXD — 4
TXD — 5
       6

The ISP function uses only six pins: VCC, GND, RXD, TXD, PSEN- and RESET. The simple circuit above is all that must be added to the user's application to use ISP with USB-ICP.

Example User Target Board (Not Part of Kit)

Target Connector

The target connector utilized is a standard 0.100" pitch 6-pin header available from numerous suppliers.

Example Molex Part Numbers

Part Number	Description
22-03-2061	6pin vertical through hole
68301-1017	6pin vertical surface mount
22-05-2061	6pin right angle through hole

Ordering Information

Part Number: USB-ICP-80C51ISP
Price: $69.00 (USD)
Order Online Now at www.teamfdi.com
OR www.digikey.com
Digi-Key P/N: 622-1001-ND

Warranty: 30-day money back guarantee
Availability: Stock

(800) 278-0293 Phone
(256) 883-1241 FAX
E-mail: sales@teamfdi.com
www.teamfdi.com

USB ICP Family

Part Number	Supports
USB-ICP-LPC9xx	Philips LPC9xx
USB-ICP-80C51ISP	Philips P89C51 Flash
USB-ICP-LPC2K	Philips ARM7 LPC2xxx

All brand names and product names are trademarks or registered trademarks of their respective holders.

FDI Future Designs, Inc.
Your Development Partner