USB-ICP



USB-ICP-LPC2K

USB In-Circuit Programmer

USB-ICP supports In-System Programming (ISP) on NXP's ARM7 LPC2xxx microcontroller family. 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, P0.14 (or P2.10) and RESETn. A small connector is all that is needed to interface your ISP application to the USB-ICP programmer.

SAB-TFBGAxxx adapter boards are also available for devices in 100pin, 180pin, and 208pin TFBGA packages. When used in conjunction with the USB-ICB-LPC2K, these facilitate programming devices in packages that normally are difficult to handle. For more information, visit our website at www.teamfdi.com

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 NXP's ARM 7 LPC2xxx microcontroller family
- Uses NXP's free Flash Magic Software - downloaded from the web

- USB-ICP Kit Includes:
 - ♦ USB-ICP dongle
 - Standard 18" cable allowing direct connection to the user's application
 - Mini ISP cable for direct programming of ARM7DIMM from ARM Touch Screen LCD Kits, ARM-57TS-LPC2478
 - ISP design guide for the user's target board

Technical Details



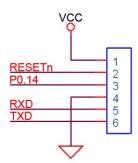
USB-ICP uses a standard RJ-45 for connection to the target cable.

Indicator LEDs

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

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

Target Schematic



The ISP function uses only six pins: VCC, GND, RXD, TXD, P0.14 (or P2.10) and RESETn. The simple example circuit above is all that must be added to the user's application to use ISP with USB-ICP. (Consult your specific device datasheet for details on ISP connectivity)

Target Connectors







6-pin 1mm Header Mini-ISP

Example User Target Board (Not Part of Kit)	USBACP STATES

Example Part Numbers		
Part Number	Description	
22-03-2061	6pin 0.1" vertical through hole	
68301-1017	6pin 0.1" vertical surface mount	
22-05-2061	6pin 0.1" right angle through hole	
SM06B-SHLS-TF	6pin 1mm right angle Mini-ISP	

Ordering Information

Part Number: USB-ICP-LPC2K Suggested Resale Price: \$79.00 (USD) Order Online Now at:

www.mouser.com

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	NXP LPC9xx	
USB-ICP-80C51ISP	NXP P89C51 Flash	
USB-ICP-LPC2K	NXP ARM LPC2xxx & LPC17XX	
Other USB-ICP Products		
SAB-TFBGA100	Socket Adapter Bd (LPC2364/68)	
SAB-TFBGA180	Socket Adapter Bd (LPC2458)	
SAB-TFBGA208	Socket Adapter Bd (LPC2468/78)	

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