

USB-ICP-LPC9xx Quick Start Guide



Installing the USB-ICP

Note: This part of the Quick Start Guide applies to ALL versions of the USB-ICP Programmer

- 1) Plug the USB-ICP into the back of the computer. Do NOT plug the USB-ICP into a hub or docking station hub.
- 2) Click **Next** on the following dialog.

| Found New Hardware Wizard | | | |
|---------------------------|---|--|--|
| | Welcome to the Found New Hardware Wizard | | |
| | This wizard helps you install software for: | | |
| | USB-ICP PROGRAMMER | | |
| | If your hardware came with an installation CD or floppy disk, insert it now. | | |
| | What do you want the wizard to do? | | |
| | Install the software automatically (Recommended) Install from a list or specific location (Advanced) | | |
| | Click Next to continue. | | |
| | < Back Next > Cancel | | |

3) After processing for awhile, click **Finish** on the following dialog. If the drivers are not found, you can download them from: <u>http://www.teamfdi.com/products/usb-icp/usb-icp.shtml</u>.



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| Found New Hardware Wizard | | | | |
|---------------------------|---|--|--|--|
| | Completing the Found New Hardware Wizard The wizard has finished installing the software for: | | | |
| | | | | |
| 1991 | USB Serial Converter | | | |
| | | | | |
| | | | | |
| | | | | |
| | Click Finish to close the wizard. | | | |
| | < Back Finish Cancel | | | |





4) The next dialog will appear. Click Next

| Found New Hardware Wizard | | | |
|---------------------------|---|--|--|
| | Welcome to the Found New Hardware Wizard | | |
| | This wizard helps you install software for: | | |
| | USB Serial Port | | |
| | If your hardware came with an installation CD or floppy disk, insert it now. | | |
| | What do you want the wizard to do? | | |
| | Install the software automatically (Recommended) Install from a list or specific location (Advanced) | | |
| | Click Next to continue. | | |
| | < Back Next > Cancel | | |

5) After processing for awhile, click **Finish** on the following dialog.







- 6) Open the Device Manager (Go to Start->Settings->Control Panel->System->Device Manager).
- Notice the new USB Serial Port added to Ports and its associated COM port (see below). The COM port number can be changed by right clicking on Properties and selecting Port Settings->Advanced->COM Port Number.



8) The USB-ICP is now properly installed. Note the COM port installed for use with Flash Magic.





Using Flash Magic with USB-ICP to program P89LPC9xx Devices

- 1) Plug the USB-ICP programmer into the USB port.
- 2) Make sure your target device IS NOT powered. DO NOT APPLY EXTERNAL POWER TO THE TARGET WHILE ICP PROGRAMMING. Damage will occur if the target is powered during ICP programming.
- 3) Plug the cable from the USB-ICP Programmer (RJ end with LEDs) to the target device.
- 4) Run Flash Magic v2.44 (or later) with the following settings:
 - a. Section 1
 - i. COM Port: Select COM port that matches installed USB-ICP
 - ii. Baud Rate: Always 19200
 - iii. Device: Choose target device processor type
 - b. Section 2
 - i. Click "Erase blocks used by Hex File".
 - c. Section 3
 - i. Click **Browse** and select HEX file to be programmed.
 - d. Section 4
 - i. Make sure all checkboxes are NOT checked and especially in the scrolling block sector area.

| Flash Magic | | | | | |
|--|--|--|--|--|--|
| <u>Eile ISP Options Tools H</u> elp | | | | | |
| COM Port: COM 6 Erase block 0 (0x0000-0x03FF) Baud Rate: 19200 Erase block 1 (0x0400-0x03FF) Device: 89LPC922 Erase block 3 (0x0000-0x03FF) Erase block 3 (0x0000-0x03FF) Erase block 3 (0x0000-0x03FF) Device: 89LPC922 | | | | | |
| Recommended Baud Rate: 7200 more info | | | | | |
| 3 | | | | | |
| Hex File: H:\Philips\LCDDEM0\SW\8Char\LCDDEM0_v1.00_U1_P89LPC9 Browse | | | | | |
| Modified: Thursday, July 14, 2005, 8:34:41 AM more info | | | | | |
| 4 Verify after programming Block 0 Sec Bit 0 Fill unused Flash Block 0 Sec Bit 1 Generate checksums Slock 0 Sec Bit 2 ✓ Start | | | | | |
| | | | | | |
| Download free 8051 and XA code examples using I2C, CAN, Flash, etc. | | | | | |
| www.esacademy.com/fag/progs | | | | | |
| | | | | | |

5) Before starting, confirm the communications is working by selecting ISP -> Read Device Signature. Three numbers will be reported similar to the following dialog.



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If 0xFF is reported for all 3 numbers, the USB-ICP is working but not able to communicate with the target device – DO NOT CONTINUE UNTIL THIS IS RESOLVED. In all other cases, an error dialog will be reported. Click **Close**.

| Device Sign | ature 🗙 | | | |
|--------------------|--------------|--|--|--|
| Manufacture | er ID: 0x 15 | | | |
| Device ID 1: 0x DD | | | | |
| Device ID 2: 0x 23 | | | | |
| | Close | | | |
| | | | | |

- 6) Program the target by clicking **Start** and wait until "Finished" appears at the bottom.
- 7) Then select ISP -> Device Configuration. Enter the desired settings and click **Reprogram**. You will need to determine the proper settings for your application. Extreme care should be taken in that incorrect settings may result in your device not being capable of being ICP programmed.

| 89LPC9xx UCFG1 | | × | | |
|--|--|-------------------------|--|--|
| Enable Watchdog Enable Watchdog Safety | Enable Reset Enable Brown | : Pin nout Detection | | |
| Clock: Watchdog Oscillator (400kHz +- 10%) | | | | |
| | Cancel | Reprogram | | |

A dialog should then appear saying "Configuration successful reprogramming."

8) Unplug the USB-ICP and apply power to the target.

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