

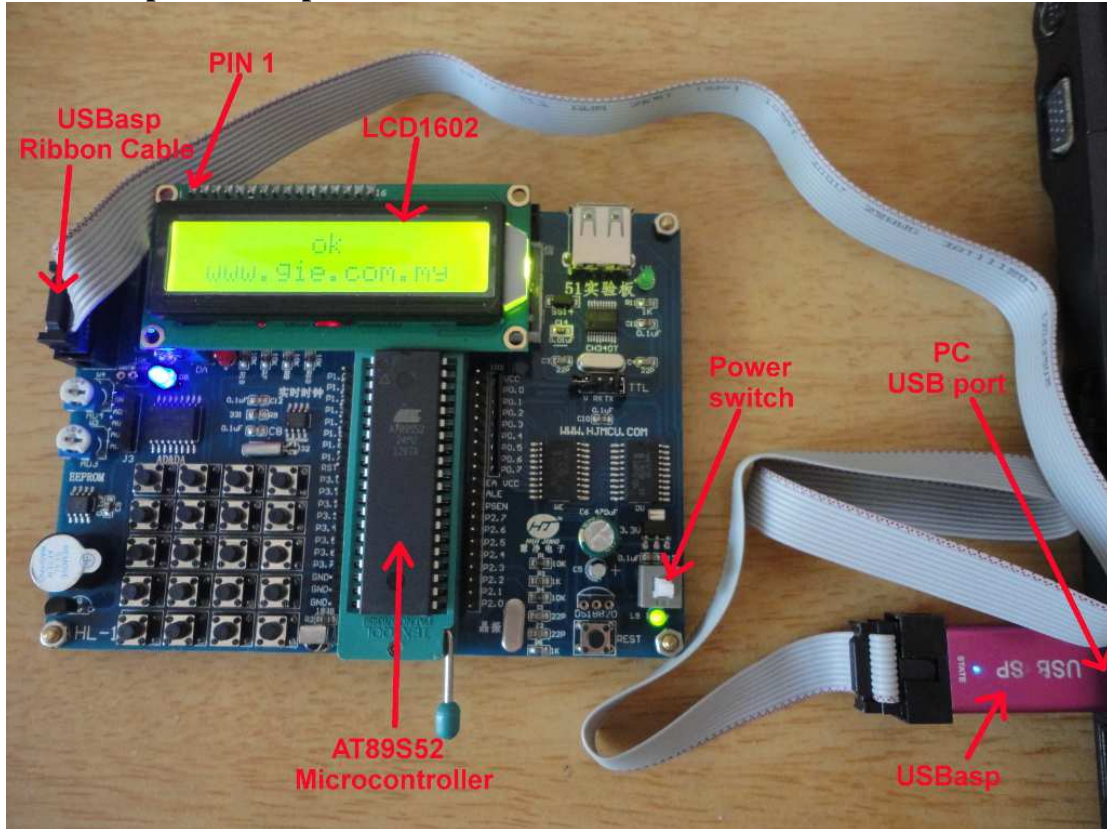
GIE 8051 Standard Kit

User Manual

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3. Development Setup



4. Jumper selection

Jumper	Function Description
J1	For 8 LEDs
J4	Use analog output to drive LED

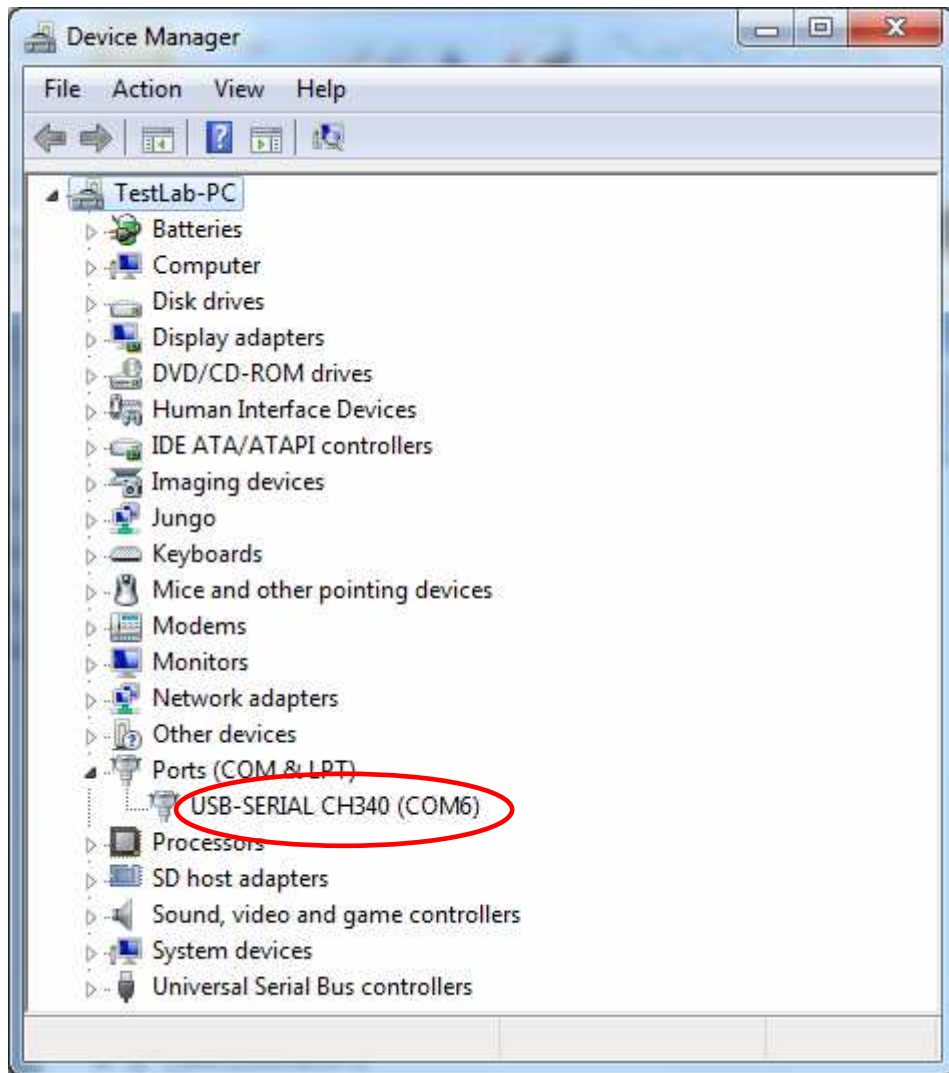
- a.) When using LED, please install J1.
- b.) When using DA to drive LED, please install J4
- c.) When using LCD1602/LCD12864, if found no display on LCD, please adjust variable resistor W2 for LCD12864; W1 for LCD1602.
- d.) When using USBasp to download the code to the MCU, it's **NOT** require to provide extra +5V (the power will supply by USBasp).

5. Required Software

a.) Install CH340 Driver (USB to Serial Port)

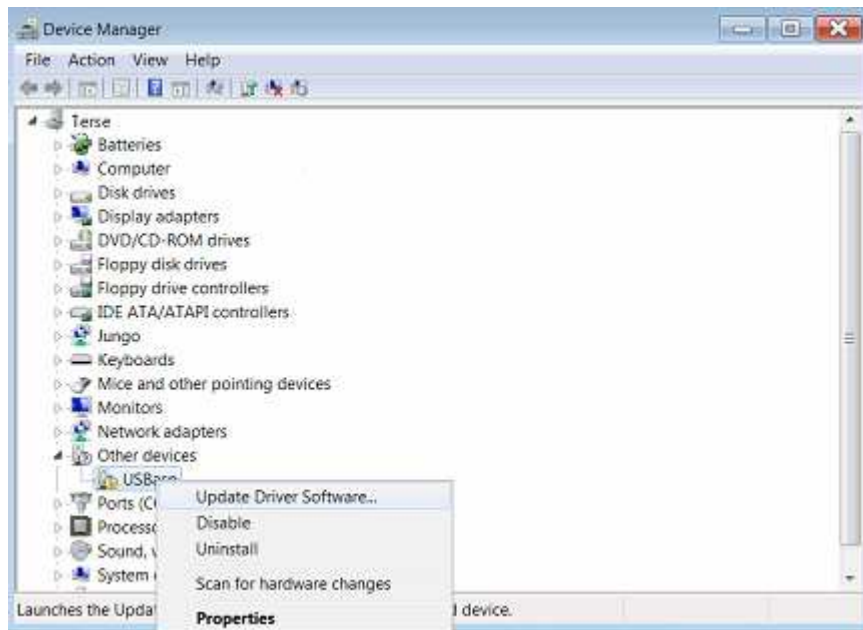
For Win7 32bits, run xxx\8051 Standard Kit\USB Driver\CH341 USB To Serial Driver\WIN7 32 bits Driver\SETUP.exe.

After installation, connect the Standard Kit to the PC through USB cable, you can check the COM Port under Control Panel → System → Device Manager as below .

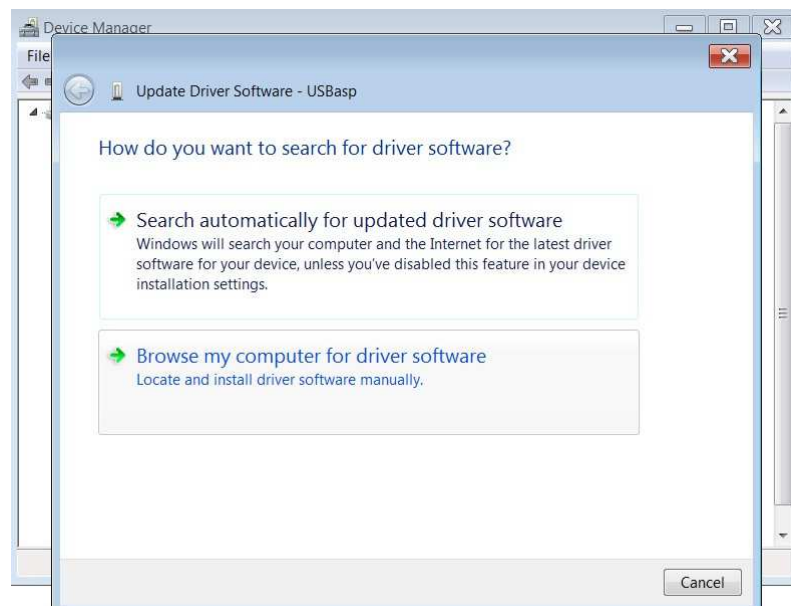


b.) Install USBasp Programmer Driver

- (i) Insert the USBasp Programmer into an available USB port in your PC.
- (ii) Go into the device manager (Control panel → System) and find the entry for the USBasp and it should be displayed with a yellow alert icon on it. Then right click on the device and select “Update Driver Software”.

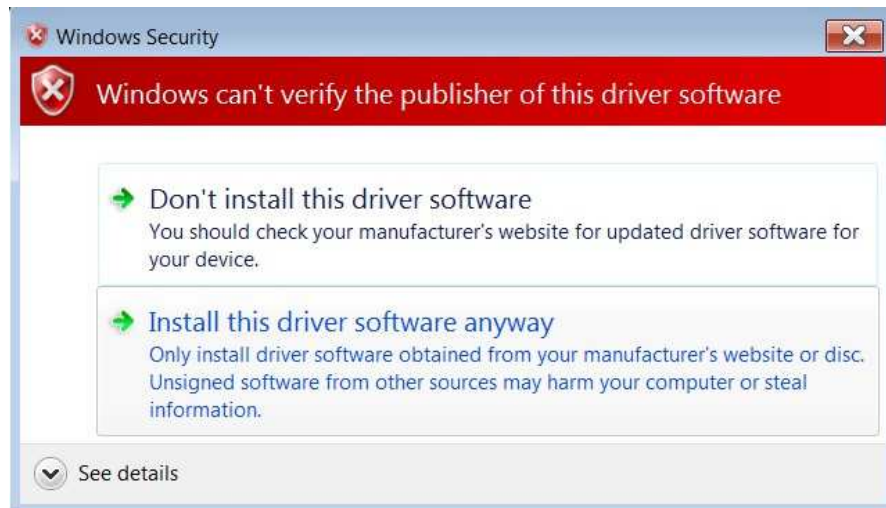


- (iii) After you left click the ‘Update Driver Software’, it will come out with “How do you want to search for driver software?” Then choose the second one which is “Browse my computer for driver software” and click into it.

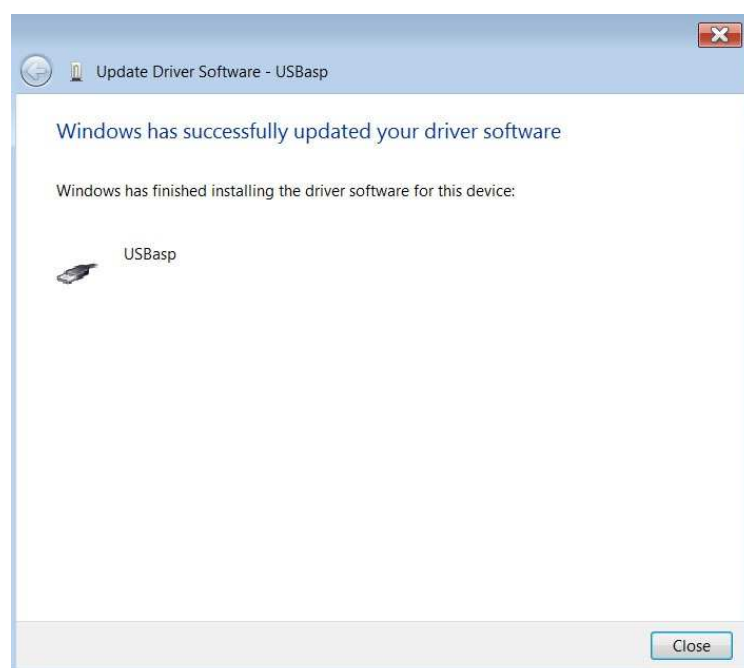




- (iv) After that, you will see the screen which will prompt out “Browse for driver software on your computer”. In this step, you need to select the folder where you the driver files are (i.e. xxx\8051 Standard Kit\USB Driver\USBasp Driver\libusb_1.2.4.0\x86) then click “Next”.
- (v) Next, the windows will prompt out a “Windows Security” with a red warning dialog. Do not worry about it, and just click “Install this driver software anyway” and the driver will install.



- (vi) After click it, the next step is to wait for a few seconds to let your computer to process the installation of driver software.
- (vii) Now, you can use the USBasp to do the programming for microcontroller.



6. Kit Contents

- a.) 8051 Standard Board x1
- b.) LCD1602 x 1
- c.) Temperature sensor DS18B20 x1
- d.) Remote Control x1
- e.) Jumper wires x1
- f.) Standoff x4
- g.) USB cable x1
- h.) USBasp x1**

7. Warranty

- a.) Product warranty is valid for 6 months.
- b.) Warranty is only applies to manufacturing defect.
- c.) Damage caused by improper use is not cover under warranty.
- d.) Warranty does not cover freight cost for both ways.