# Lcdmod Kit

# C1602AY-S1

Perspex mini-itx case

(Designed for Intel® Atom$^{TM}$ Processor)

with

USB interface 16x2 LCD module

(Black characters with yellow background)

# User Manual

Website: http://www.lcdmodkit.com

# Chapter 1 Introduction

1.1 Package Contents



1.2 Specifiaction

| Case | |
|---|---|
| Case Color | No color crystal clear (Acrylic) |
| Corner Stand | 56mm height Silver White (Surface treated sandblasted aluminium) |
| Foot Stand | M5 Screw (4.5mm height) |
| Dimensions | 185 x 199 x 62mm<br><br>(WxLxH, box height only, not included the height of foot stand) |
| HDD Bays | [2x] 2.5" HDD (under the motherboard) |
| Foam Factor | mini itx |
| Internal Height | Total 56mm (15 - 17mm under main board, 1.5mm main board, 39.5 – 37.5mm above main board) |

| Front Panel LCD | |
|---|---|
| Data Transfer | USB 1.1 compliant |
| LCD Resolution | 16 Characters x 2 Lines |
| LCD color | Black characters / yellow background |
| Screen Size | 64.5 x 14.5 mm |
| Work with | Lcd Smartie, lcd4linux and LCDProc |
| Opearting System | Linux, Windows 98, XP, 7 32 & 64 bits |

| USB connection | Internal USB connector |
| --- | --- |

# Chapter 2 Hardware Setup

2.1 Installing hard disk to the bottom crystal clear plate

2.1.1 Place red fiber liners on mounting holes of hard disk



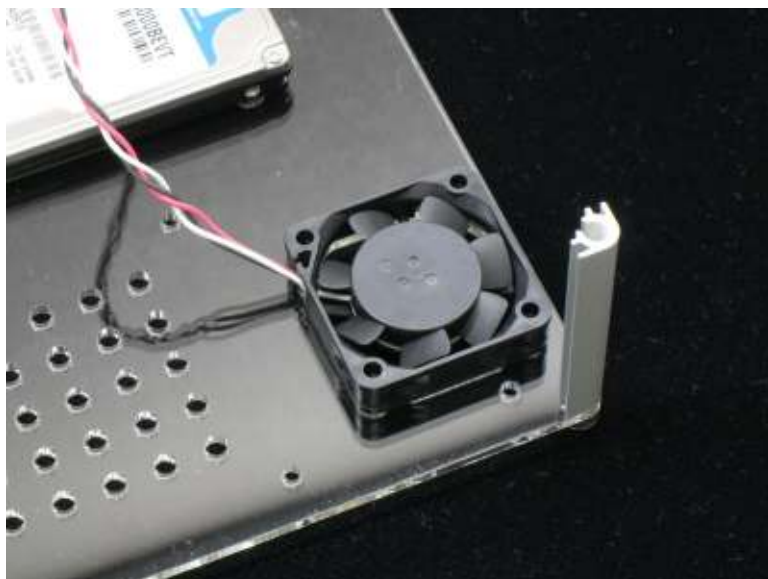2.1.2 Place bottom crystal clear plate on the top of hard disk and install screws

(If you only use one hard drive, please cover the exhausted holes of the another drive bay)



2.2 Installing corner stands to the bottom crystal clear plate

2.3 Exhausted fan installation



Please remind the arrows sign which marked on the fan, the air flow arrow point to outward.

2.4 Installing nylon studs on the bottom crystal clear plate

No use of red fiber liner, studs height is 15mm.

Use 4 pieces 1 mm thickness red fiber liner can adjust studs height to 16mm.

Use 8 pieces 1mm thickness red fiber liner can adjust studs height to 17mm.
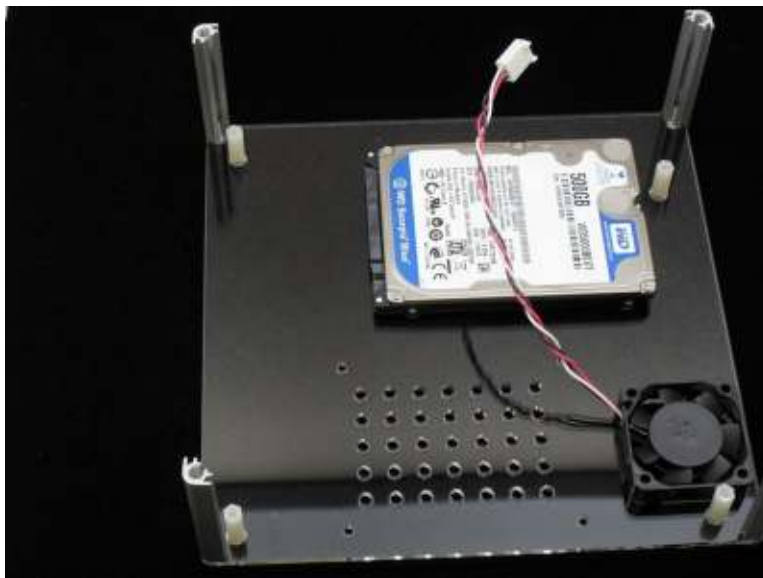


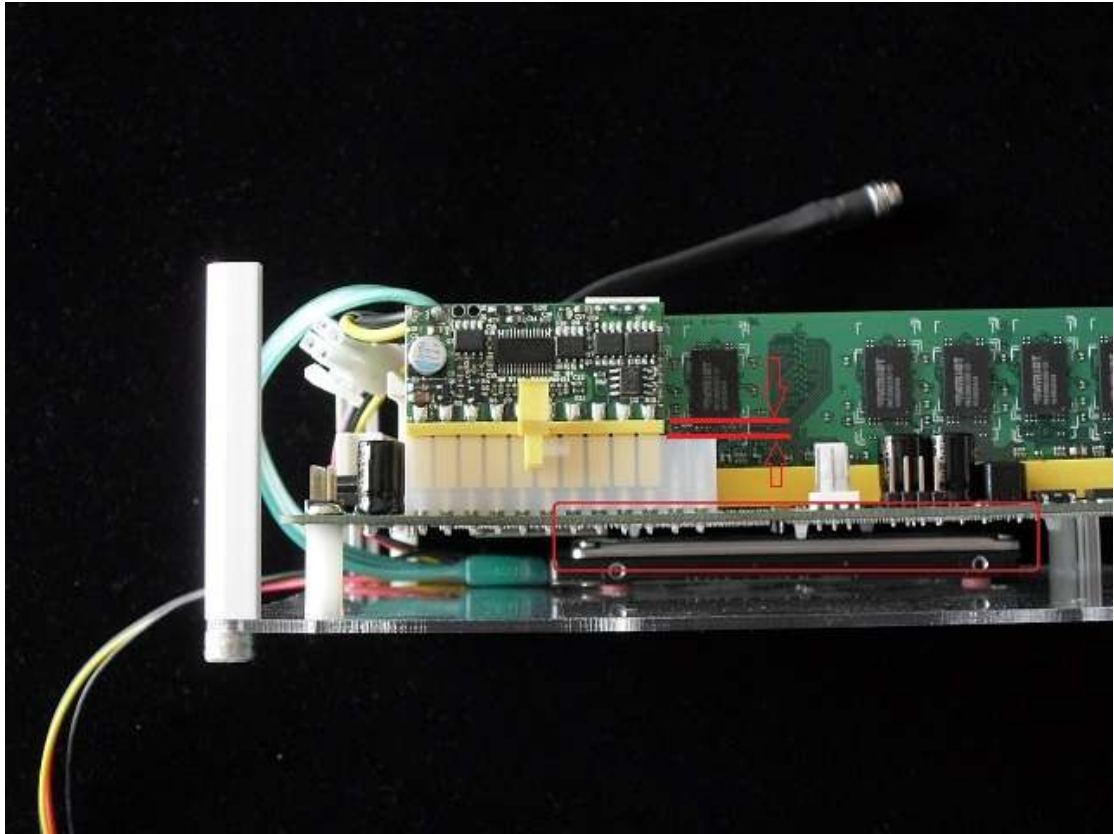2.5 Connecting SATA data and power cables

2.6 Insert the rear crystal clear plate.
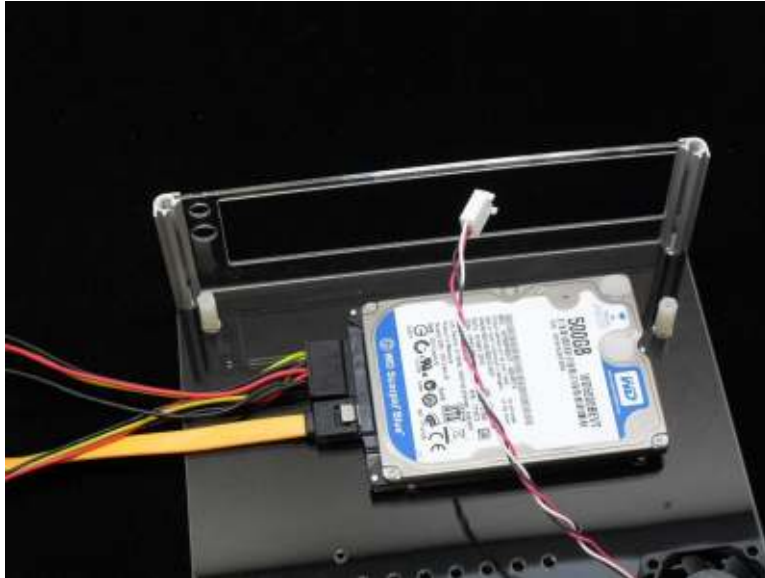
2.7 Installing Mainboard and power cable and Wifi connector (if you have)
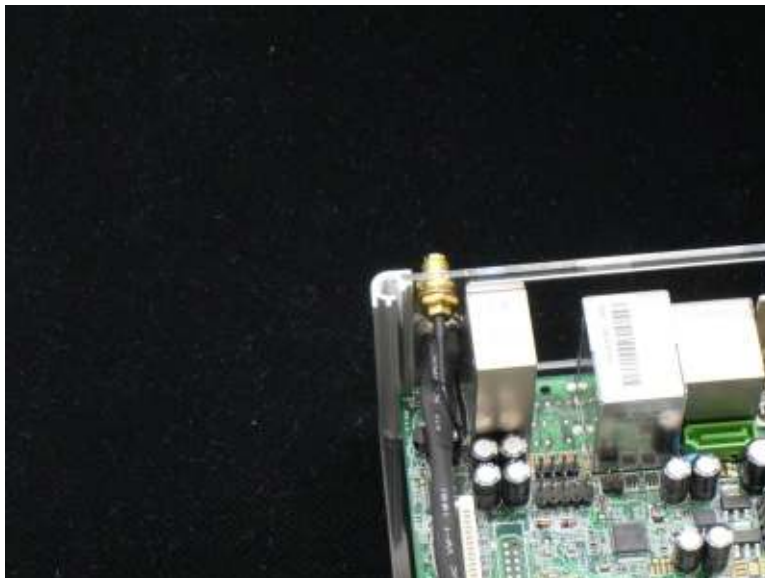


Make sure no contact between motherboard and harddisk. Use low profile type power supply.

2.8 Installing right side crystal clear plate
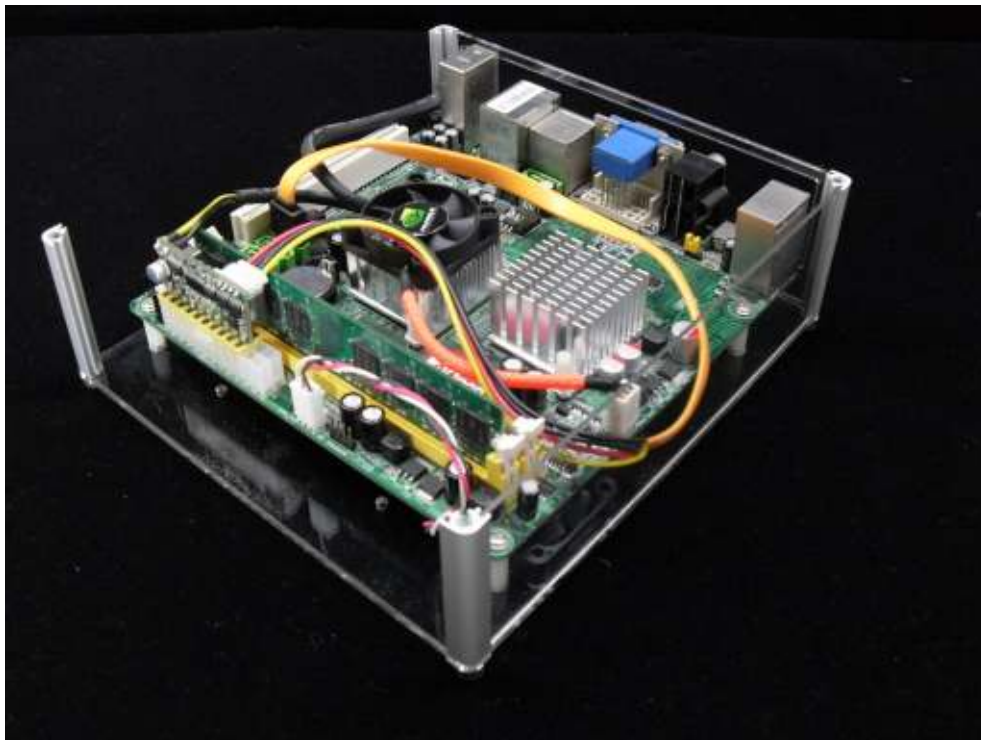


2.9 Connecting ON/OFF switch cable (we provide one short and one long cable, please choose the suitable one for your mainbaoard)

2.9.1 Main board side

**FP1-Pin Definition**

| Pin | Signal | Pin | Signal |
|-----|--------|-----|--------|
| 1 | HDD_LED+ | 6 | PWR_SW |
| 2 | PW_LED+ | 7 | RESET |
| 3 | HDD_LED- | 8 | GND |
| 4 | PW_LED- | 9 | NC |
| 5 | GND | 10 | KEY |
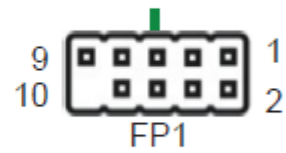
(Important! Red color of cable is pin 1)



2.9.2 Switches and indicators side
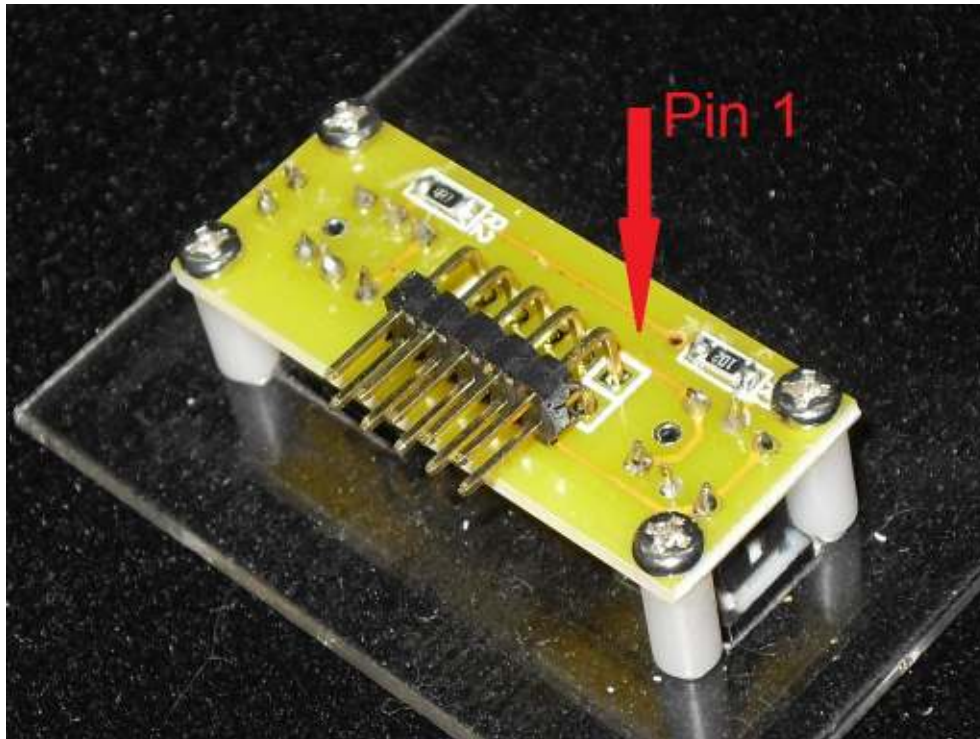
2.10 Installing right side crystal clear plate



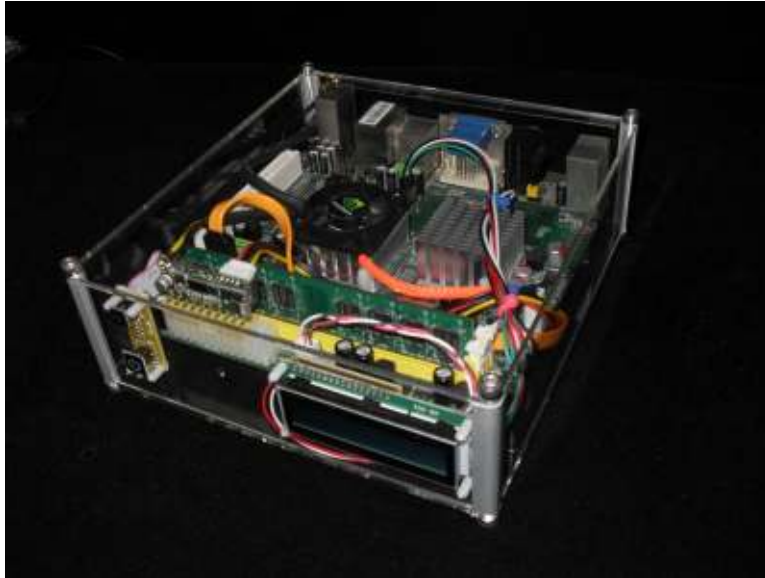2.11 Connecting internal USB cable of front panel LCD to USB connector of motherboard

(D- = USBP*- , D+ = USBP*+)

## USB-Pin Definition

| PIN | Assignment | PIN | Assignment |
|-----|-----------|-----|-----------|
| 1 | VCC | 6 | USBP1+ |
| 2 | VCC | 7 | GND |
| 3 | USBP0- | 8 | GND |
| 4 | USBP1- | 9 | KEY |
| 5 | USBP0+ | 10 | OC# |
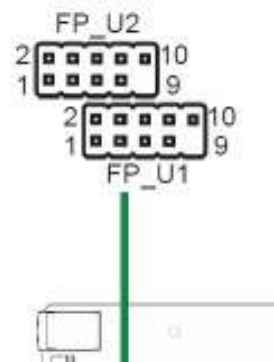


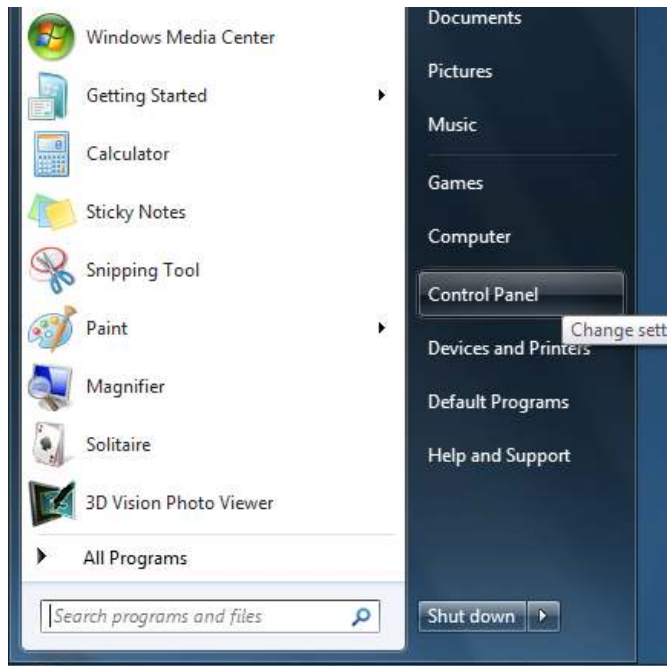2.12 Installing the top crystal clear plate

# Chapter 3 Driver Installation

3.1 Power up message
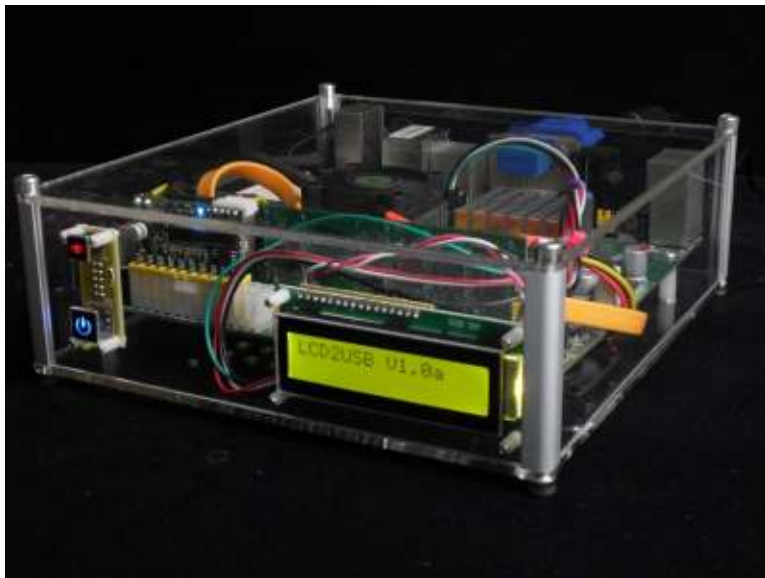


3.2 Error message may be shown on your screen
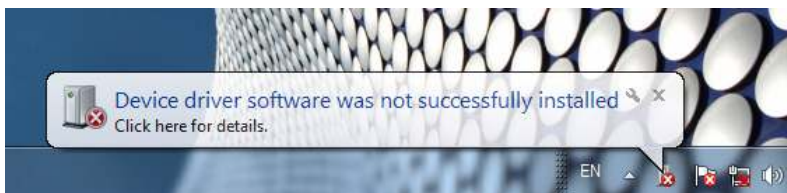


3.3 Copy the driver folder to any driver or desktop of your computer
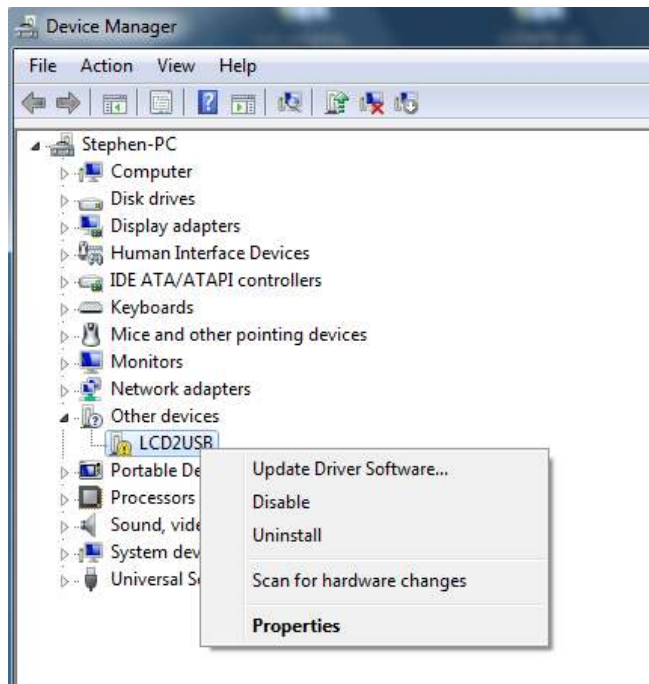
3.4 Go to "Control Panel"

3.5 Go to "System and Security"



3.6 Go to "Device Manager"
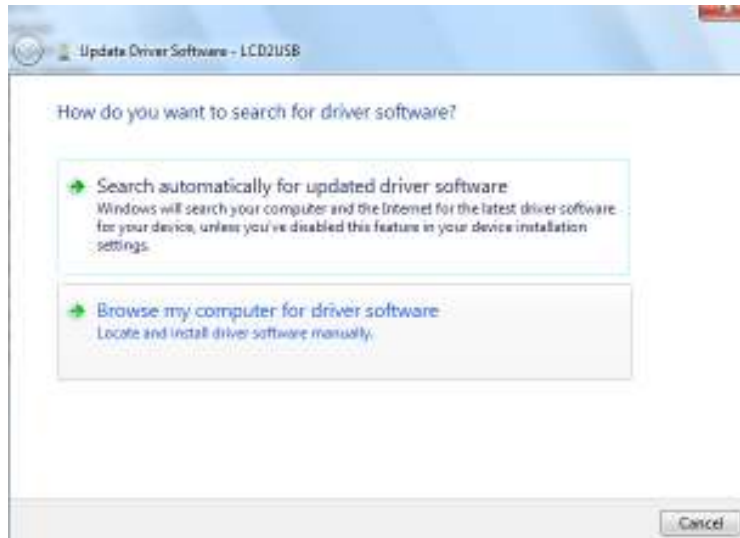
3.7 "LCD2USB" with "!", right click the mouse and "Update Driver Software"
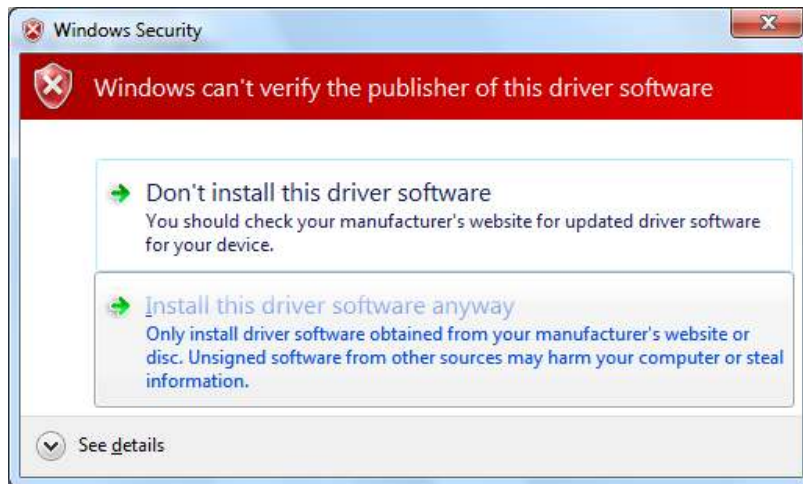


3.8 Choose "Browse my computer for driver software"
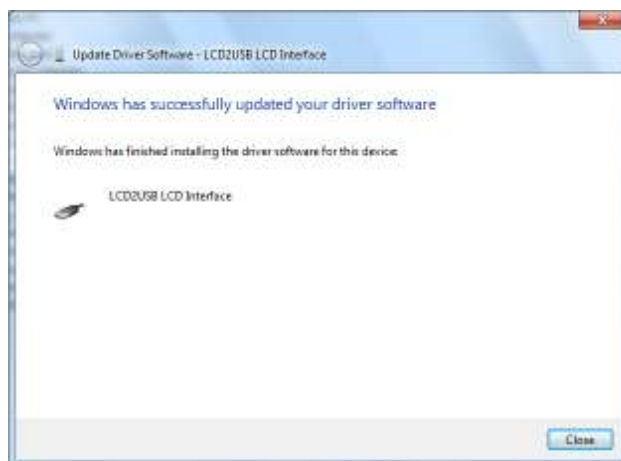
3.9 Find out the driver folder you copied before
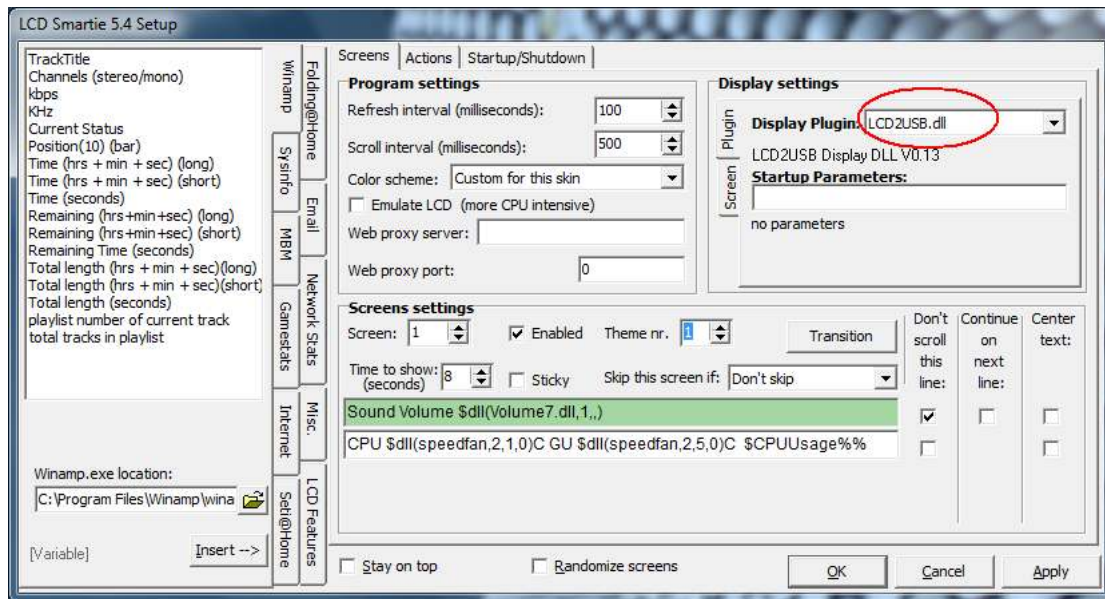


3.10 Install this driver anyway

3.11 Close it



# Chapter 4 Front Panel LCD Software Installation

4.1 Unzip the "lcd_smartie_v5.4" to any driver any folder you like.

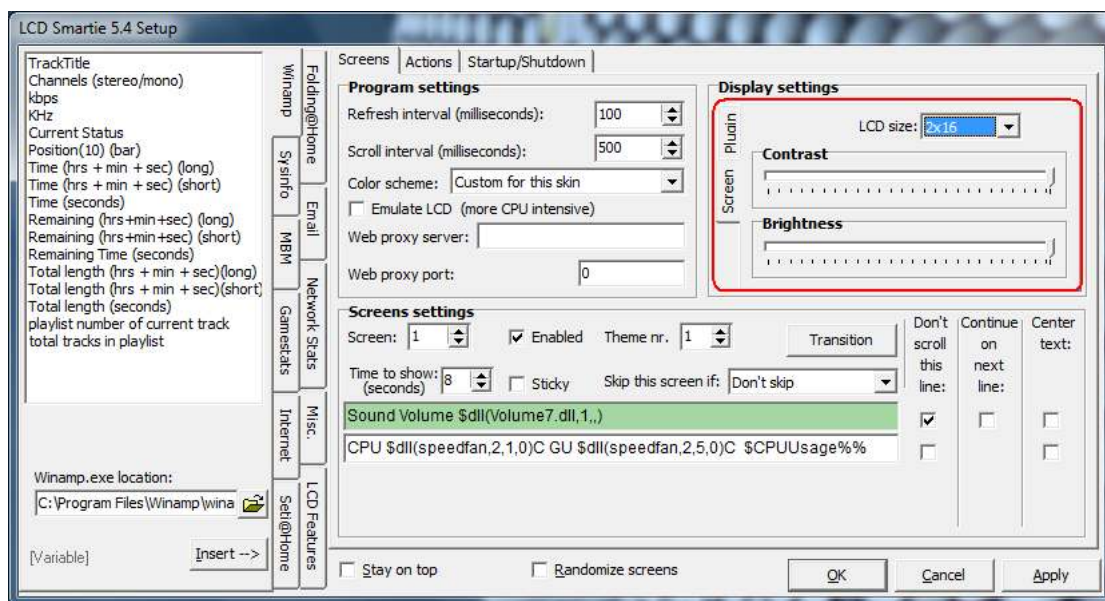4.2 Run "LCDSmartie"



4.3 Set the display plugin to "LCD2USB.dll" in setup

4.4 Change the LCD size to "4x20" and tune the LCD contrast and brightness of backlight



Note: For more details about LCDSmartie, please go through the official site of LCDSmartie
http://lcdsmartie.sourceforge.net/