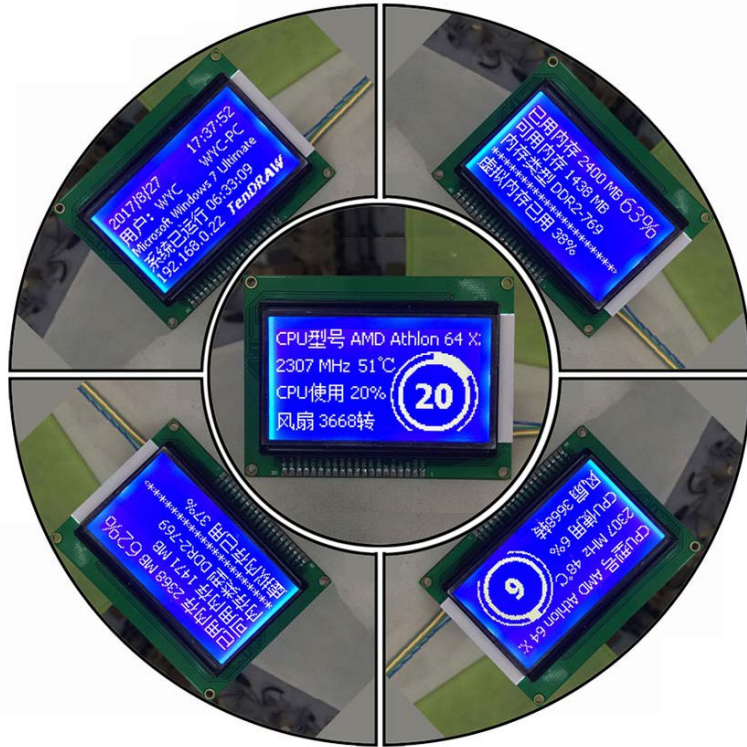




# 12864 USB Graphic LCD Module AIDA64



Business Card



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## Reference Software & Driver

### USB Display Selection Guide



AIDA64



# Part A: AIDA64 Software for GLCD2USB

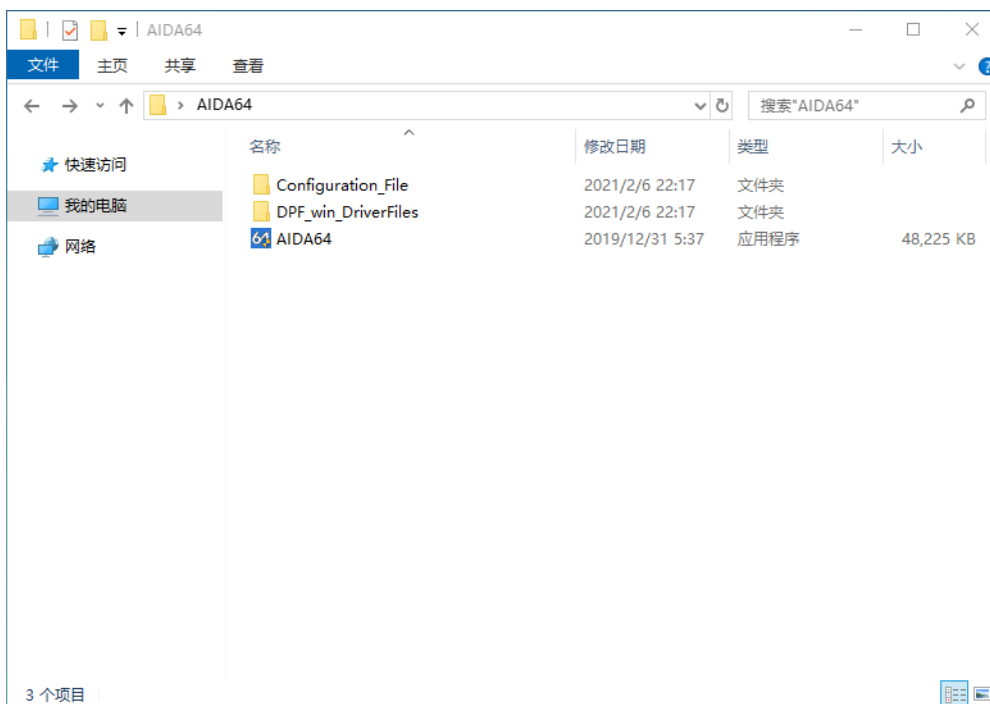
## How to use TenDRAW system monitor screen on Aida64?

The Tendraw system monitoring screen is an innovative device launched by our company. Through it, you can intuitively understand the operating conditions of your personal computer, server, and workstation at any time, and display the use status of each hardware, network status, specific data, etc.

The TenDRAW system monitor screen communicates with the computer through the USB interface. So before installing the software, please make sure that it is properly connected to the USB port (or USB pin) of the computer. After connecting, the monitor screen will light up and display the standby screen or characters.

Let's take SUG12864A as an example to explain the setting method in Aida64 software. SUG12864A is a dot-matrix graphic screen that can display pictures, text, and animations. The display content is rich, practical and enjoyable. It also has the biggest advantage of plug-and-play, no driver installation, very Convenience.

First, please download the latest version of the Aida64 software from the homepage link. After downloading, decompress and get the following files:

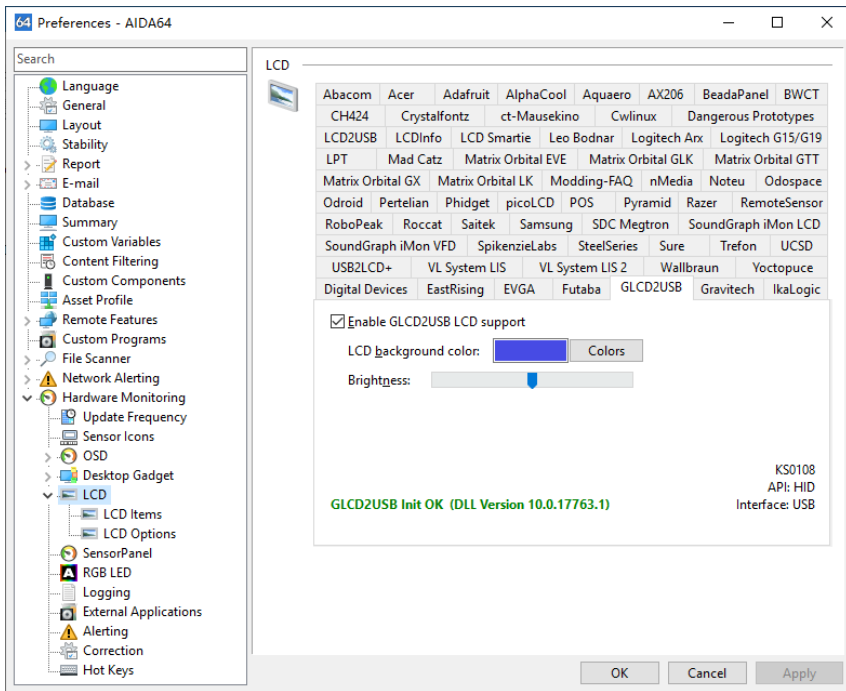


This version is a green version and does not need to be installed (some versions may need to be installed, and the installation method is similar to other software). At this time, double-click aida64.exe, that is, enter the software.

Aida64 is not a free software. Please enter the serial number obtained through legal channels into this text box and click OK to complete the registration. (Note: The trial version also supports this screen, but there may be some functional limitations.)

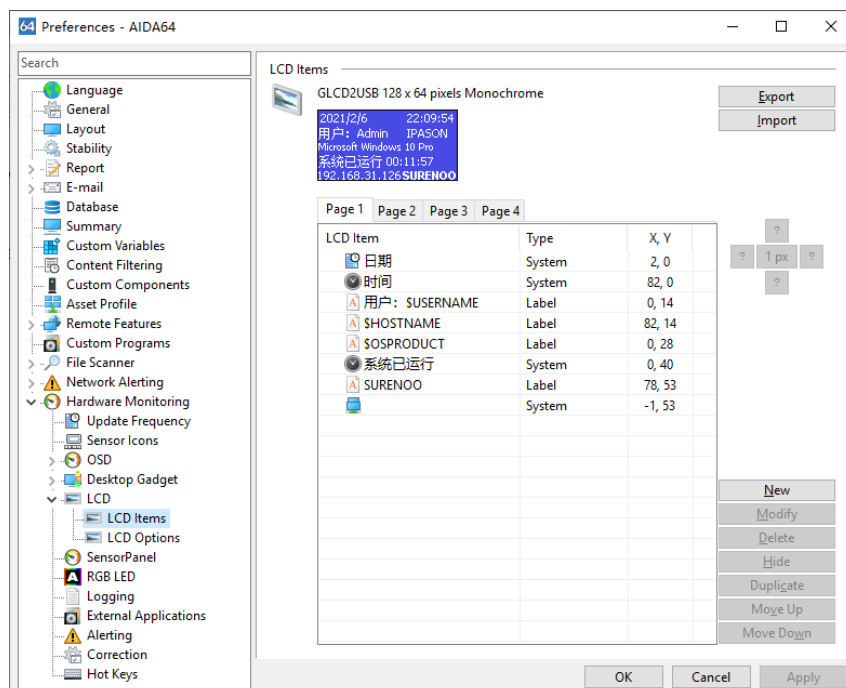


Next click "File"-"Preferences", select "LCD", and select "GLCD2USB" in the list on the right



Select "Enable GLCD2USB support", then the system monitor screen will have a screen change, prompting how to set up the AIDA64 software, just ignore it, just click "Apply" in the lower right corner. If the system fails to detect the monitor screen, there will be a red character in the lower left corner of the software interface indicating that the hardware is not found. At this time, you need to recheck whether the connection with the computer is correct, and then restart the software settings after confirmation.

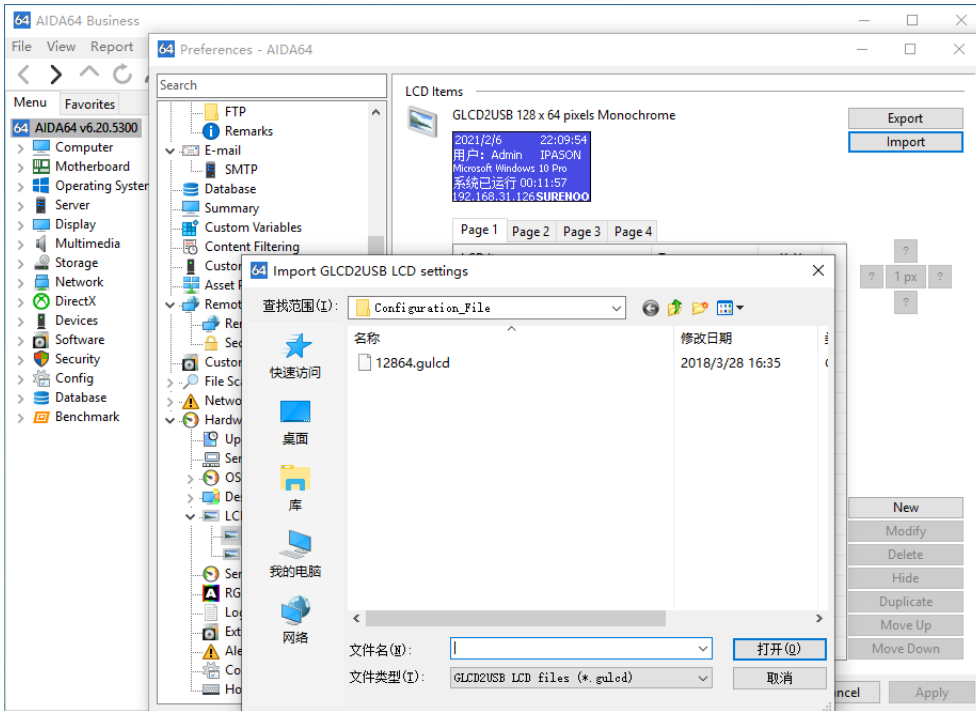
Next, click "LCD Items" in the left column, the screen content setting interface appears as shown in the figure below.





You can use the default content set by us. Our default content is in the software package, you need to import the software only.

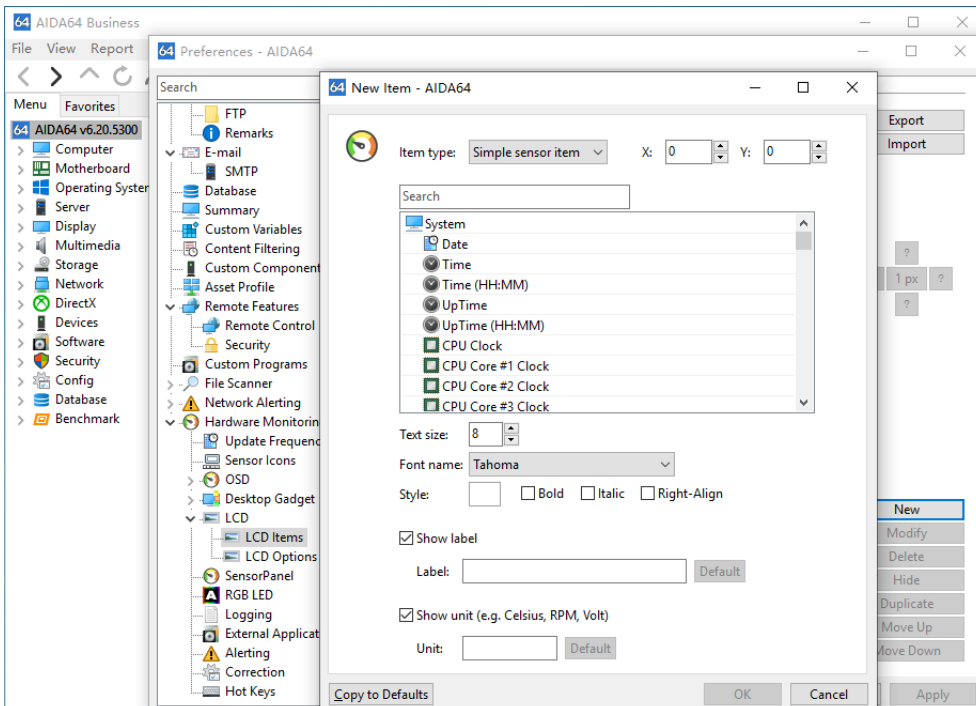
Click "Import" in the upper right corner, and the following dialog box will appear:



Find the 12864.gulcd file in the downloaded software package and click to open it.

At this time, the monitor screen is already working.

If you don't like the content we defined, you can select "New" in the content setting interface above, and the following dialog box will appear:



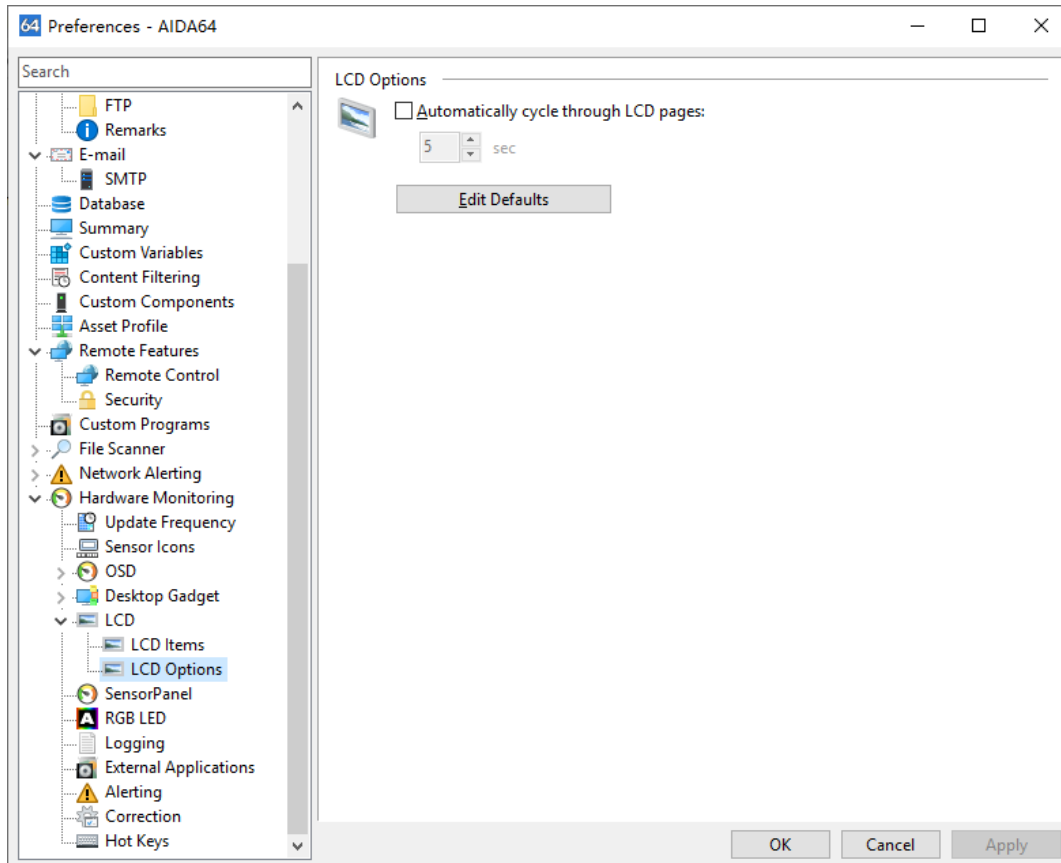


At this time, you can set the display content according to your needs.

Please read the software manual for the detailed method.

Aida64 provides the content display of four pages only, you can set the content customization for each page and location in detail.

If you need four pages of content rotation, please click on "LCD Options" on the left, and then select "Automatically Cycle LCD Pages" on the right interface.



At this point, the TenDRAW system monitor screen is set up in the Aida64 software, and you can enjoy the convenience and fun it brings you.

# Part B: 12864 Graphic LCD Module

## 1. SPECIFICATION

### 1.1 Display Specification

ITEM	STANDARD VALUE	UNIT
Dot Matrix	128 x 64 Dots	--
Display Connector	Pin Header, 20 pins	--
Operating Temperature	-20 ~ +70	°C
Storage Temperature	-30 ~ +80	°C

### 1.2 Mechanical Specification

ITEM	STANDARD VALUE	UNIT
Outline Dimension	93.0(W) × 70.0(H) × 13.0(T) (MAX)	mm
Visual Area	70.7(W) × 38.8(H)	mm
Active Area	66.52(W) × 33.24(H)	mm
Dot Size	0.48x0.48	mm
Dot Pitch	0.52x0.52	mm

### 1.3 Electrical Specification

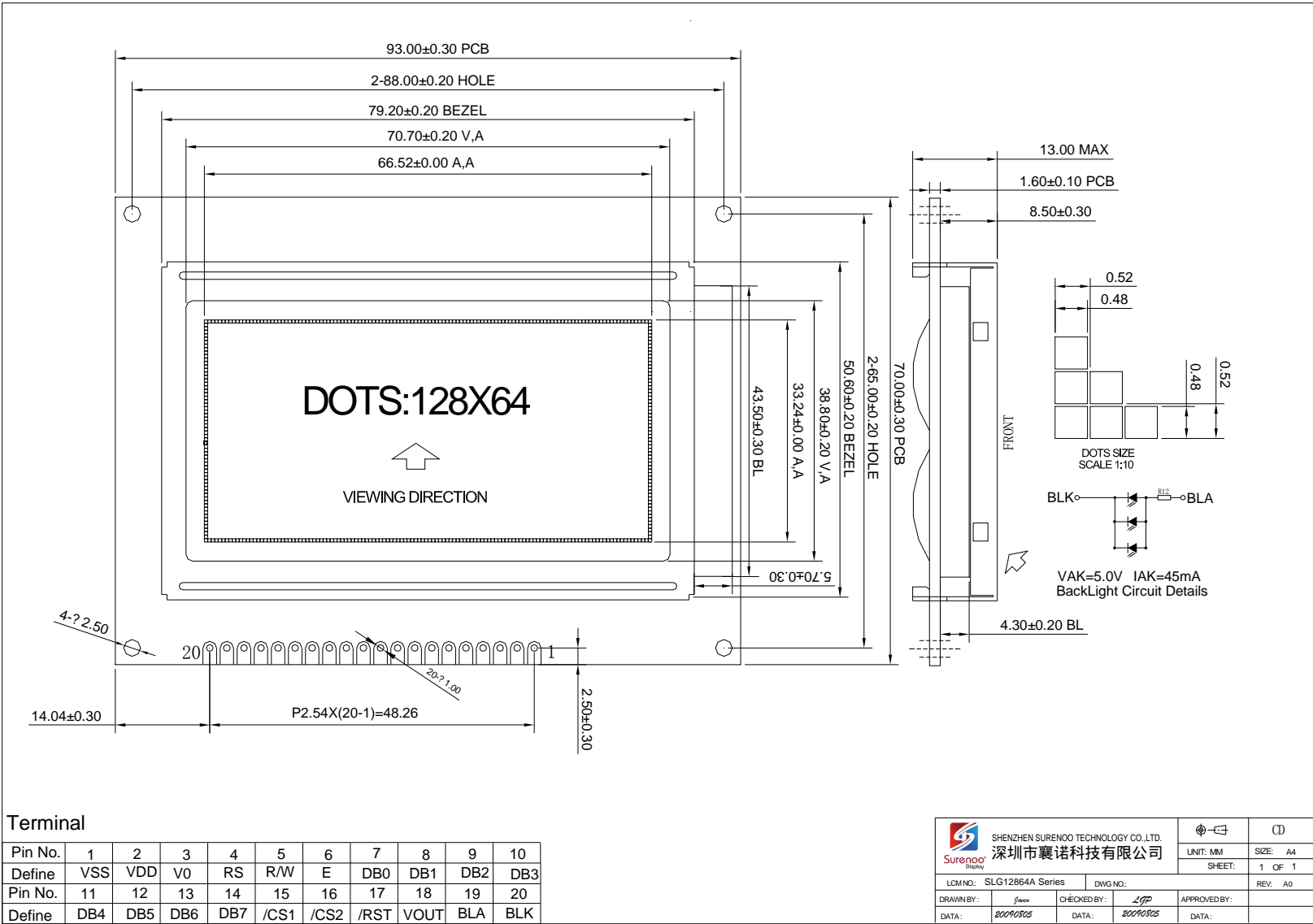
ITEM	STANDARD VALUE	UNIT
IC Package	COB	--
Controller	KS0108 or Equal	--
Interface	6800 8-bit Parallel	--

### 1.4 Optical Specification

ITEM	STANDARD VALUE	UNIT
LCD Type	STN Blue Negative	--
Backlight Color	White LED	--
Viewing Direction	6:00	Clock
LCD Duty	1/64	Duty
LCD Bias	1/9	Bias



## 2. OUTLINE DRAWING







### 3. ELECTRICAL SPEC

#### 3.1 Pin Configuration

Pin Num	Pin Name	Description
1	VSS	GND
2	VDD	Power supply for logic
3	V0	Operating voltage for LCD
4	RS	H: data L : Instruction code
5	R/W	H: read L: write
6	E	Enable signal
7-14	DB0-DB7	Data Bus Line
15	CS1	Chip selection for IC1, active "H"
16	CS2	Chip selection for IC2, active "H"
17	/RST	Reset signal, active "L"
18	Vout	Output voltage for LCD driving
19	LEDA	Power supply for LED backlight
20	LEDK	

#### 3.2 Absolute Maximum Ratings

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Power Supply for Logic	VDD-VSS	-0.3	-	+7.0	V
Power Supply for LCD	VEE	VDD-19	-	VDD+0.3	V
Input Voltage	VIN	-0.3	-	VDD+0.3	V
Supply Current for Backlight	ILED	-	60	-	mA

#### 3.3 Electrical Characteristics

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Power Supply for LCM	VDD-VSS	-	4.8	5.0	5.2	V
Input Voltage	VIL	L Level	VSS	-	0.2VDD	V
	VIH	H Level	0.8VDD	-	VDD	V
LCD Driving Voltage	VDD-V0	-	8.3	8.5	8.7	V
Supply Current for LCM	IDD	VDD=5.0V	-	-	6	mA





## Part C: USB Module for Graphic LCD Module

