# KS6061 128X32 LCD display Module

1. Overview

This is a liquid crystal display module with a resolution of 128*32 pixels, featuring the ST7567A driver chip. The module utilizes IIC communication and is capable of displaying both English and Chinese characters as well as graphics. For easy setup, we provide a test code that demonstrates the display of various English characters, common symbols, and a graphic. Additionally, the code includes libraries for all English letters and common symbols, which can be directly invoked. Users can also customize the display of English letters and symbols with different sizes in the code. To facilitate graphic display setup, we offer a modeling software that converts specific graphics into control codes, which can then be directly copied into the test code for use.

2. Specifications

- Voltage: 5V
- Current: 100mA
- Maximum Power: 0.5W
- Operating Temperature Range: 0°C to 40°C
- Dimensions: 47.6mm * 23.8mm

3. Connection Diagram
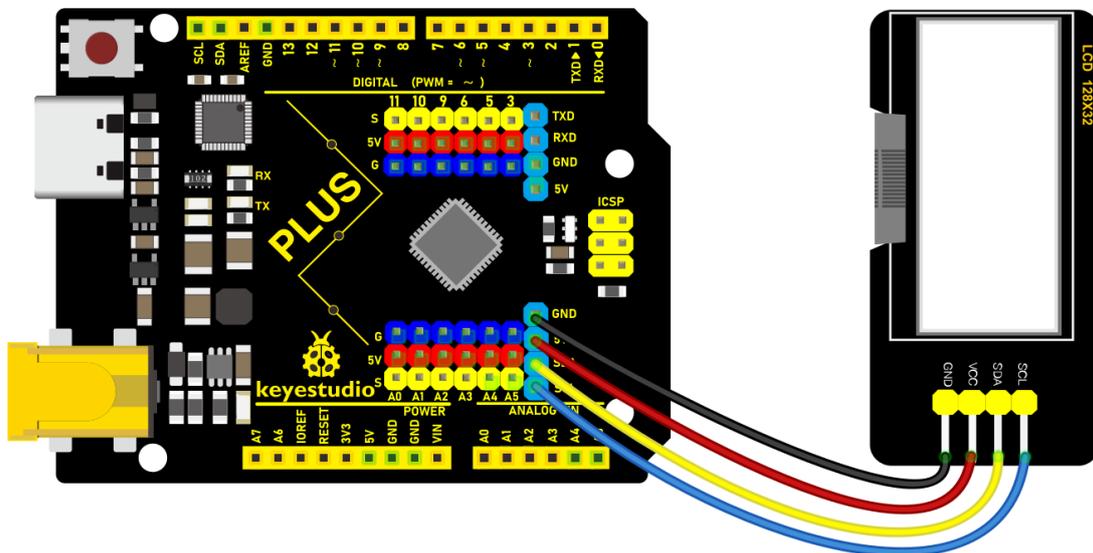
4. Test Code

```c
/***************************
 * project: ST7567A 128*32dot LCD
 * progranmmer: Mo
 * Version: V1.0
 * date: 2024-03-28
 * screen:
 * x y--------------------> +
 * |                        |
 * |                        |
 * |--------------------
 * | +
 * v
 * URL: https://github.com/mworkfun/ST7567A_128X32DOT_LCD
 ***************************/
#include"lcd.h"
//create an lcd object.
lcd Lcd;
/////////////////////////////////////////////////////
void setup() {
  //Serial.begin(9600);
  Lcd.Init();
  Lcd.testPixel(2);                      //use to test LCD screen. Parameter is velocity.
  for(int a=0; a<32; a++){
  Lcd.DisplayPixel(a,a);                 //display one pixel. X=0-31, Y=0-127
  delay(5);
  }
  for(int a=0; a<32; a++){
  Lcd.ClearPixel(a,a);                   //Does not display a pixel. X=0-31, Y=0-127
  delay(5);
  }
  Lcd.Cursor(0,7);                       //Character display position. y=0-3, x=0-17
  Lcd.Display("KEYES");                  //Maximun 18 characters.
  Lcd.Cursor(1,0);
  Lcd.Display("ABCDEFGHIJKLMNOPQR");
  Lcd.Cursor(2,0);
  Lcd.Display("123456789+-*/<>=$@");
  Lcd.Cursor(3,0);
  Lcd.Display("%^&(){}:;'|?,.~\\[]");
  delay(1000);
}

void loop() {
}
```

CONTINUES…

5. Test Results

Before uploading the code, please place the library files in the "libraries" folder under the Arduino IDE installation directory. Then, open the Arduino IDE and successfully upload the code. After powering on, the OLED will display the graphic.