MKS-12864OLED

Overview

MKS-12864OLED adopts OLED display and created by Makebase.

It is suitable for the printer which carries with small display , installed size and good display effect .

Features

1. Default 1.3/0.96 inch OLED display;

2. If you have other sizes display, you can ask not to weld 1.3 inch OLED either , but the interface will be retained for users;

3. The interface of MKS-12864OLED is as the same as 2004/12864LCD.
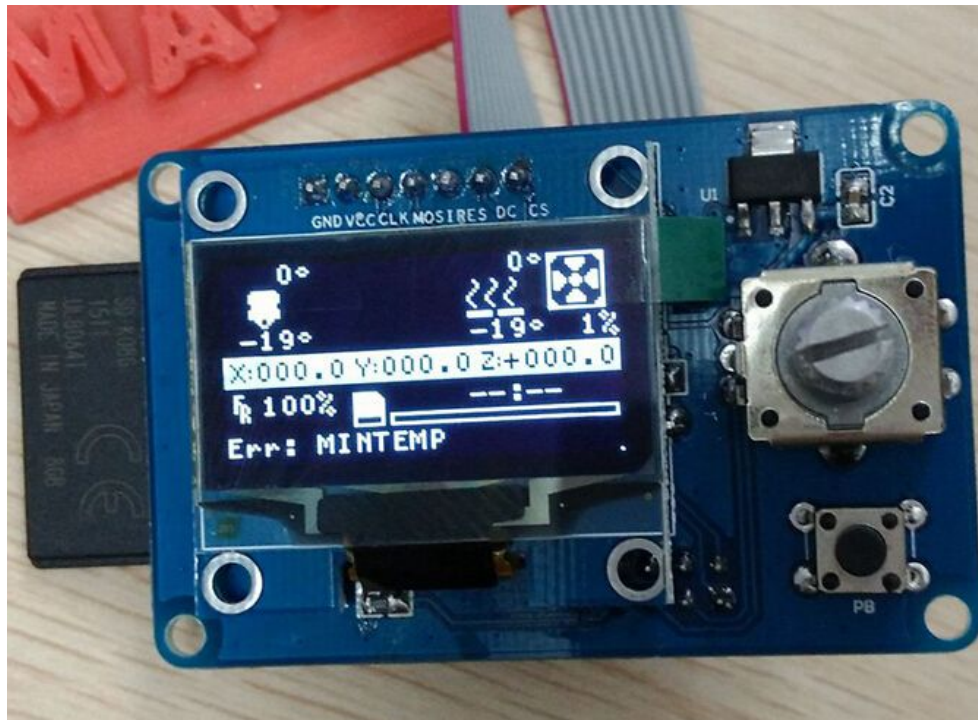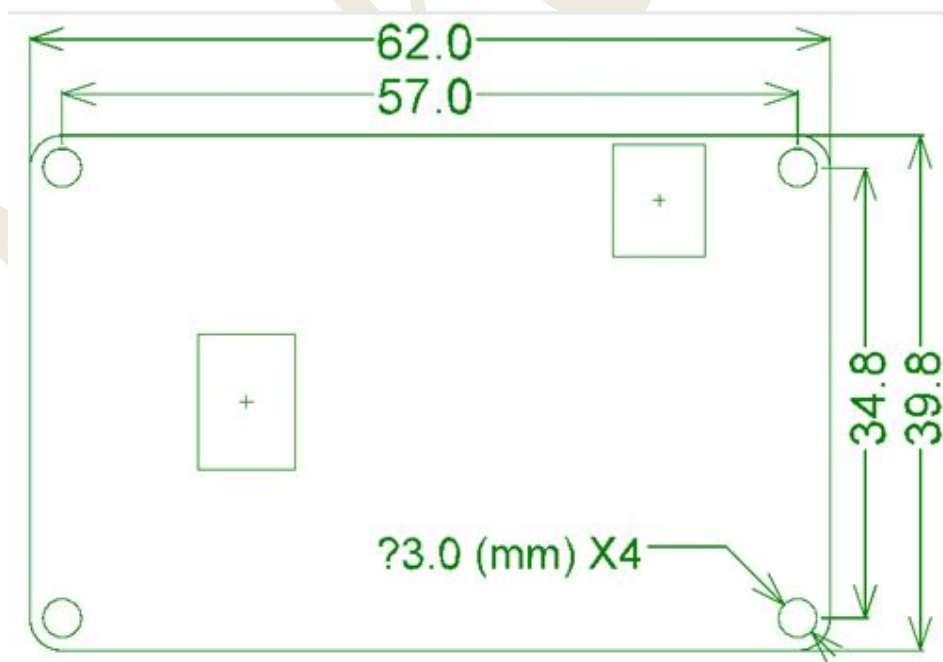
Notice:

1. The Marlin must be modified before use, the modification method refers to the below instructions.

2. Repetier may not work unless you self-develop one.

3. We will provide an example of firmware for testing, but does not provide technical support.

4. Each piece will be tested.

MKS 12864OLED photo:

Size

Connection

EXP1 connects to EXP1 of mainboard

EXP2 connects to EXP2 of mainboard

You must follow the connection sequence, especially 3v3 and GND, wrong connection will burn OLED.

GND: connects to GND of OLED   power ground

3V3:   VCC of OLED   power anode

CLK: CLK of OLED   clock

MOSI: MOSI of OLED   data

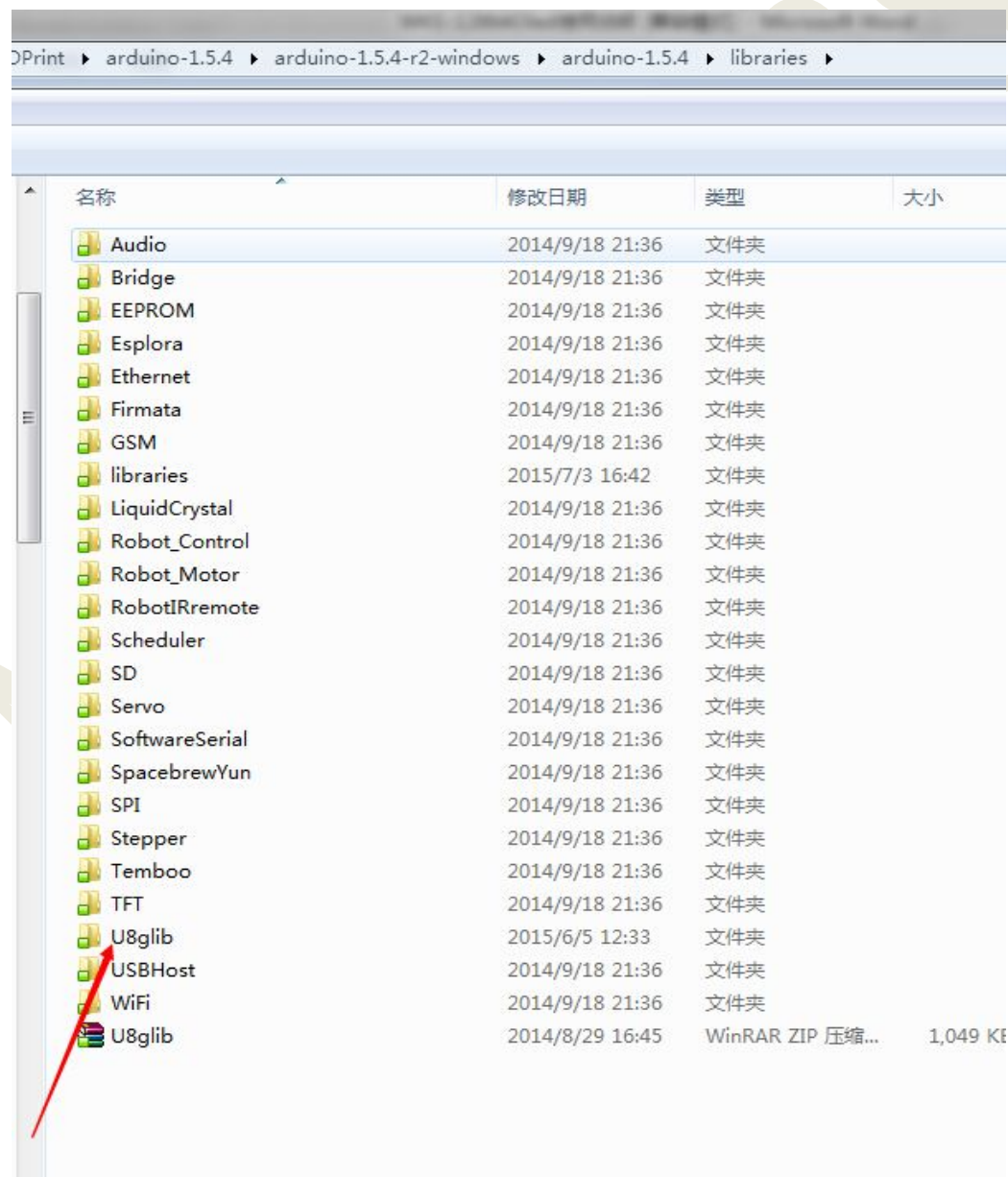RES: RES of OLED   reset

DC: DC of OLED   data order option

CS: CS of OLED   chip selection

Instruction on Usage

If use Arduino IDE, We suggest   1.5.4 updated version. And unzip

U8glib.rar into libraries directory.   As follow:

1.3OLED

Modify file Configuration.h, add the following sections, refers to the example firmware.

/*---------------MKS OLED patch_1----------------------*/

// MKS   OLED 1.3''   128x64 FULL GRAPHICS CONTROLLER

// ==> REMEMBER TO INSTALL U8glib to your ARDUINO library folder:

http://code.google.com/p/u8glib/wiki/u8glib

#define MKS_OLED13_128x64_FULL_GRAPHICS_CONTROLLER

#if defined (MKS_OLED13_128x64_FULL_GRAPHICS_CONTROLLER)

    #define DOGLCD

    #define U8GLIB_SH1106

    #define REPRAP_DISCOUNT_SMART_CONTROLLER

    #define NEWPANEL

#endif

/*---------------MKS OLED patch_1----------------------*/

Modify file dogm_lcd_implementation.h, add the following sections ,

refers to the example firmware.

/*---------------MKS OLED patch_2----------------------*/

#elif defined(U8GLIB_SH1106)

U8GLIB_SH1106_128X64 u8g(23, 17, 16, 25);   // SW SPI Com: SCK = 23,

MOSI = 17, CS = 16, A0 = 25

/*---------------MKS OLED patch_2----------------------*/

Modify file Marlin_main.cpp, add the following sections ,refers to the example firmware.

/*---------------MKS OLED patch_3----------------------*/

#if defined (MKS_OLED13_128x64_FULL_GRAPHICS_CONTROLLER)

    pinMode(LCD_PINS_DC, OUTPUT);

    pinMode(LCD_PINS_RST, OUTPUT);

    digitalWrite(LCD_PINS_RST   , LOW);

    delay(1000);

    digitalWrite(LCD_PINS_RST   , HIGH);

#endif

/*---------------MKS OLED patch_3----------------------*/

Modify file pins.h, add the following sections ,refers to the example firmware.

/*--------------MKS OLED patch_4---------------------*/

#if defined (MKS_OLED13_128x64_FULL_GRAPHICS_CONTROLLER)

#ifdef LCD_PINS_D5

#undef LCD_PINS_D5

#define LCD_PINS_D5 -1

#endif

#ifdef LCD_PINS_D6

#undef LCD_PINS_D6

#define LCD_PINS_D6 -1

#endif

#define LCD_PINS_RST   27

#define LCD_PINS_DC   25

#endif

/*--------------MKS OLED patch_4---------------------*/

0.96 OLED

1. Configuration.h

/*--------------MKS OLED patch_1---------------------*/

```
// MKS  OLED 0.96''  128x64 FULL GRAPHICS CONTROLLER
// ==> REMEMBER TO INSTALL U8glib to your ARDUINO library folder:
http://code.google.com/p/u8glib/wiki/u8glib
#define MKS_OLED96_128x64_FULL_GRAPHICS_CONTROLLER


#if defined (MKS_OLED96_128x64_FULL_GRAPHICS_CONTROLLER)
    #define DOGLCD
    #define U8GLIB_SSD1306
    #define REPRAP_DISCOUNT_SMART_CONTROLLER
    #define NEWPANEL
#endif
/*--------------MKS OLED patch_1----------------------*/


2. dogm_lcd_implementation.h
/*--------------MKS OLED patch_2----------------------*/
#elif defined(U8GLIB_SSD1306)
  U8GLIB_SSD1306_128X64 u8g(23, 17, 16, 25);  // SW SPI Com: SCK = 23,
MOSI = 17, CS = 16, A0 = 25
/*--------------MKS OLED patch_2----------------------*/


3. Marlin_main.cpp
/*--------------MKS OLED patch_3----------------------*/
#if defined (MKS_OLED96_128x64_FULL_GRAPHICS_CONTROLLER)
   pinMode(LCD_PINS_DC, OUTPUT);
   pinMode(LCD_PINS_RST, OUTPUT);
   digitalWrite(LCD_PINS_RST , LOW);
   delay(1000);
```

```
   digitalWrite(LCD_PINS_RST  , HIGH);
#endif
/*--------------MKS OLED patch_3--------------------*/
```

4.pins.h

```
/*--------------MKS OLED patch_4--------------------*/
#if defined (MKS_OLED96_128x64_FULL_GRAPHICS_CONTROLLER)


#ifdef LCD_PINS_D5
#undef LCD_PINS_D5
#define LCD_PINS_D5 -1
#endif
#ifdef LCD_PINS_D6
#undef LCD_PINS_D6
#define LCD_PINS_D6 -1
#endif
#define LCD_PINS_RST  27
#define LCD_PINS_DC   25
#endif
/*--------------MKS OLED patch_4--------------------*/
```