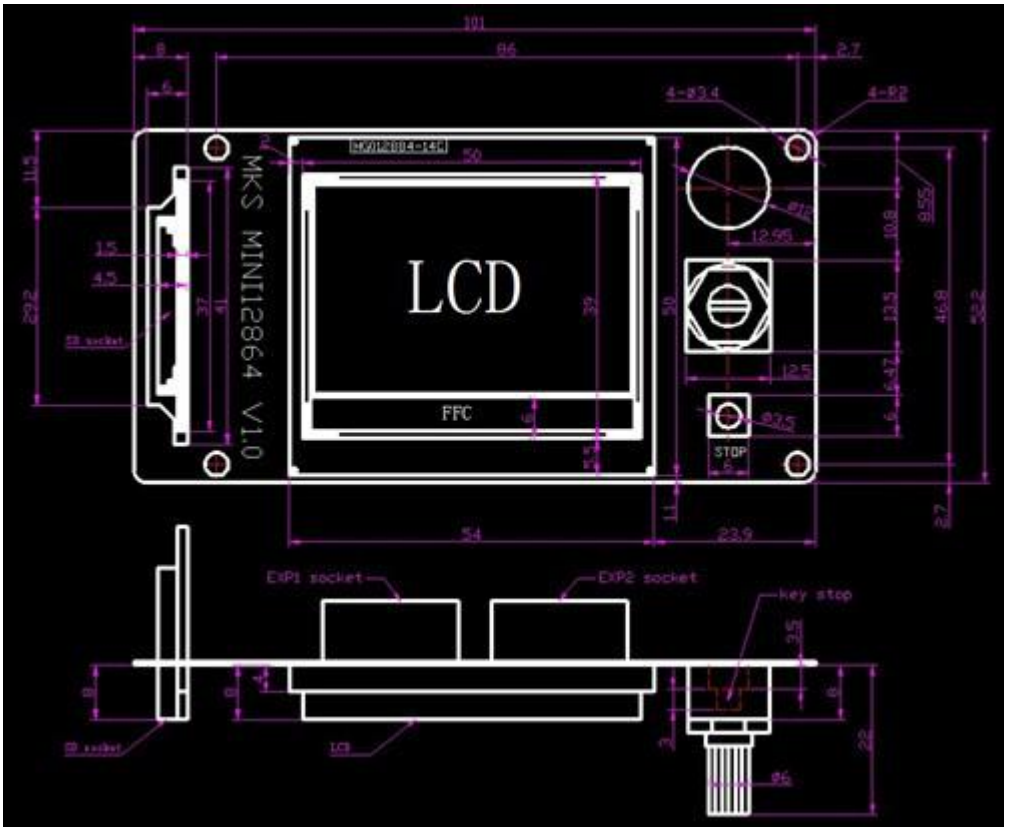
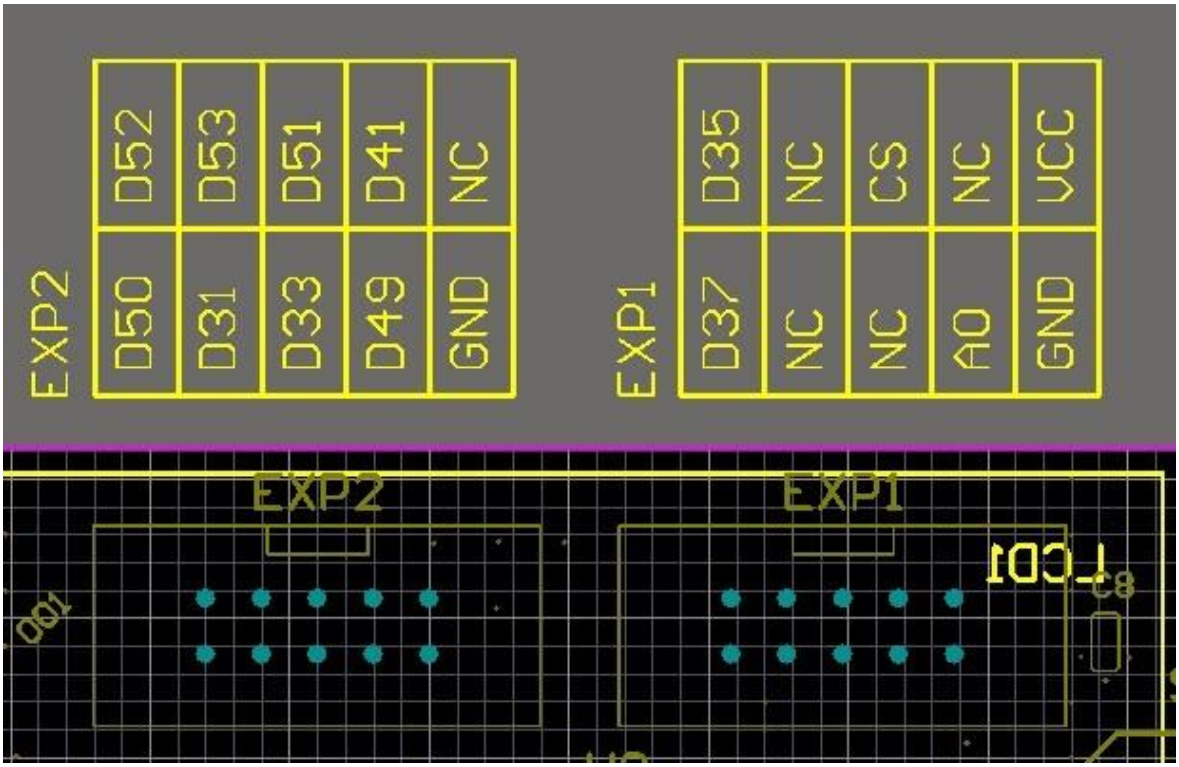
MKS MINI12864LCD

Advantages

1.This LCD brings its own encoder, proceed parameter adjusting.
2.Only compatible with Mega 2560 controller board.
(Can't work with MKS SBASE ,MKS SGEN…)
3.Support off-line printing.
4.Carry with buzzer tips for operating.
This MINI LCD is suitable for small machines.
  And it is smaller than LCD12864.

MKS MINI12864LCD Size





How to Set Configurations

Please download firmware from following github.
github.com/thingsmart/Marlin-RC

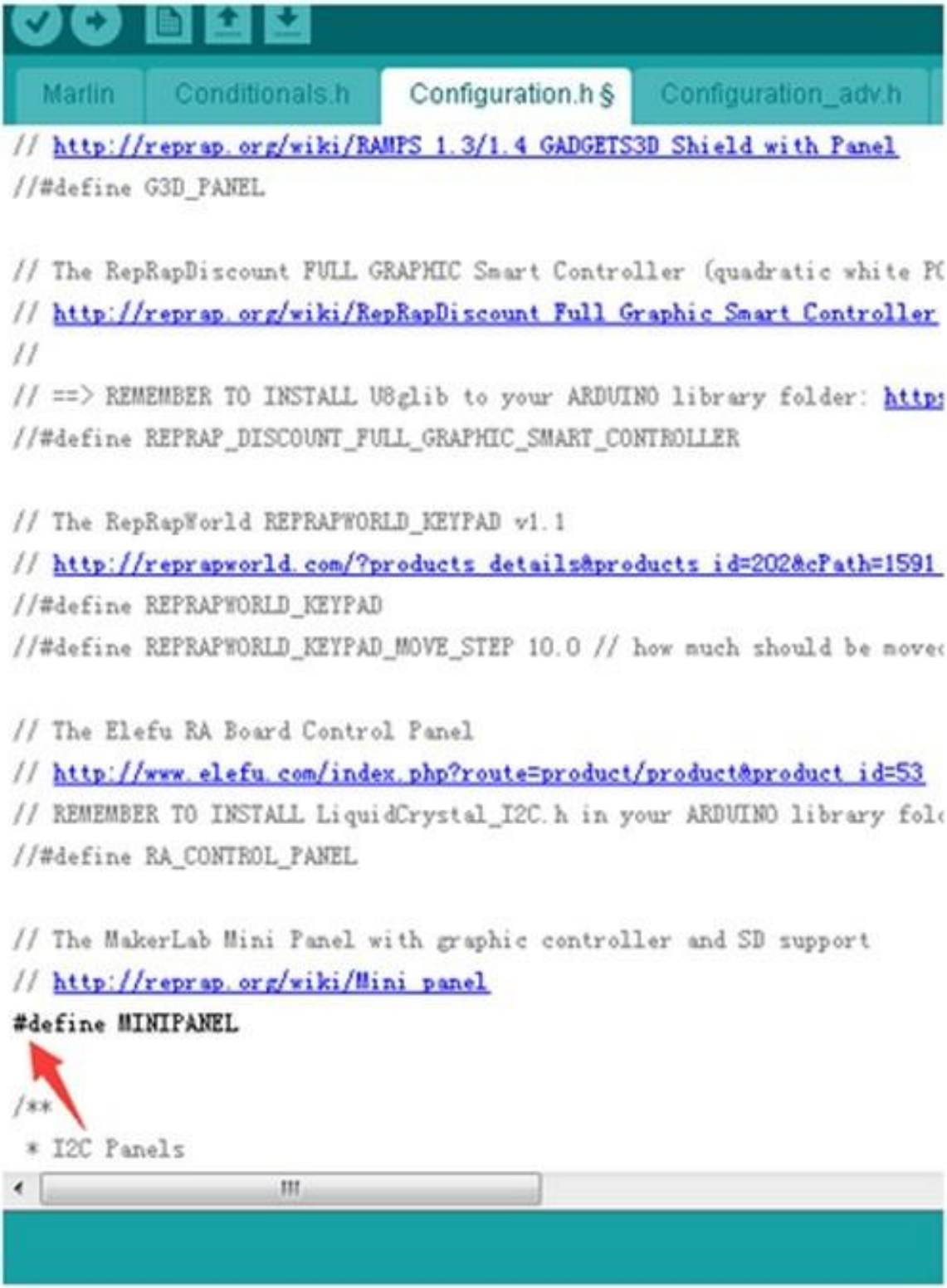
Tips:
The config is suitable for XYZ machine. If for Delta, please use following config.
marlin/example_configurations/delta/generic.

Please refer to following instruction to set configuration.

Step 1


Marlin | Arduino 1.5.4
文件 编辑 程序 工具 帮助
Marlin
Conditionals.h
Configuration.h
Configuration_adv.h
// Serial port 0 is still used by the Arduino bootloader regardless of
// :[0,1,2,3,4,5,6,7]
#define SERIAL_PORT 0
// This determines the communication speed of the printer
// :[2400,9600,19200,38400,57600,115200,250000]
#define BAUDRATE 250000
// Enable the Bluetooth serial interface on AT90USB devices
//#define BLUETOOTH
// The following define selects which electronics board you have.
// Please choose the name from boards.h that matches your setup
#ifndef MOTHERBOARD
#define MOTHERBOARD BOARD_MKS_BASE
#endif
// Optional custom name for your RepStrap or other custom machine
// Displayed in the LCD "Ready" message
//#define CUSTOM_MACHINE_NAME "3D Printer"

Step 2


Marlin
Conditionals.h
Configuration.h §
Configuration_adv.h
// http://reprap.org/wiki/RAMPS_1.3/1.4_GADGETS3D_Shield_with_Panel
//#define G3D_PANEL
// The RepRapDiscount FULL GRAPHIC Smart Controller (quadratic white PC
// http://reprap.org/wiki/RepRapDiscount_Full_Graphic_Smart_Controller
//
// ==> REMEMBER TO INSTALL U8glib to your ARDUINO library folder: http:
//#define REPRAP_DISCOUNT_FULL_GRAPHIC_SMART_CONTROLLER
// The RepRapWorld REPRAPWORLD_KEYPAD v1.1
// http://reprapworld.com/?products_details&products_id=202&cPath=1591
//#define REPRAPWORLD_KEYPAD
//#define REPRAPWORLD_KEYPAD_MOVE_STEP 10.0 // how much should be move
// The Elefu RA Board Control Panel
// http://www.elefu.com/index.php?route=product/product&product_id=53
// REMEMBER TO INSTALL LiquidCrystal_I2C.h in your ARDUINO library fol
//#define RA_CONTROL_PANEL
// The MakerLab Mini Panel with graphic controller and SD support
// http://reprap.org/wiki/Mini_panel
#define MINIPANEL
/**
* I2C Panels

Step 3
Find following values in red color in pins_RAMPS_14.h.
And change them into the values in black. Then, save it.

```
#elif ENABLED(MINIPANEL)
  #define BEEPER_PIN 42      37
  // Pins for DOGM SPI LCD Support
  #define DOGLCD_A0  44      27
  #define DOGLCD_CS  66      25
  #define LCD_PIN_BL 65 // backlight LED on A11/D65
  #define SDSS   53

  #define KILL_PIN 64
  // GLCD features
  //#define LCD_CONTRAST 190
  // Uncomment screen orientation
  //#define LCD_SCREEN_ROT_90
  //#define LCD_SCREEN_ROT_180
  //#define LCD_SCREEN_ROT_270
  //The encoder and click button
  #define BTN_EN1 40         31
  #define BTN_EN2 63         33
  #define BTN_ENC 59 35the click switch
  //not connected to a pin

  #define SD_DETECT_PIN 49
```

Notice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Conditionals.h
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Default_Version.h
//#define DISPLAY_CHARSET_HD44780_CYRILLIC
//#define ULTRA_LCD //general LCD support, also 16x2
//#define DOGLCD // Support for SPI LCD 128x64 (Controller ST7565R graphic Display Family)
#define SDSUPPORT // Enable SD Card Support in Hardware Conxole
Move '//' away,enable SD card.
//#define SPI_SPEED SPI_HALF_SPEED // (also SPI_QUARTER_SPEED, SPI_EIGHTH_SPEED) Use slower SD transfer
//#define SD_CHECK_AND_RETRY // Use CRC checks and retries on the SD communication
//#define ENCODER_PULSES_PER_STEP 1 // Increase if you have a high resolution encoder
//#define ENCODER_STEPS_PER_MENU_ITEM 5 // Set according to ENCODER_PULSES_PER_STEP or your liking
//#define REVERSE_MENU_DIRECTION // When enabled CLOCKWISE moves UP in the LCD menu
//#define ULTIMAKERCONTROLLER //as available from the Ultimaker online store.
//#define ULTIPANEL //the UltiPanel as on Thingiverse
//#define SPEAKER // The sound device is a speaker - not a buzzer. A buzzer resonates with his own frequ
//#define LCD_FEEDBACK_FREQUENCY_DURATION_MS 100 // the duration the buzzer plays the UI feedback sound.
//#define LCD_FEEDBACK_FREQUENCY_HZ 1000 // this is the tone frequency the buzzer plays when on
// 0 to disable buzzer feedback. Test with M300 S<frequ


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Marlin
Conditionals.h
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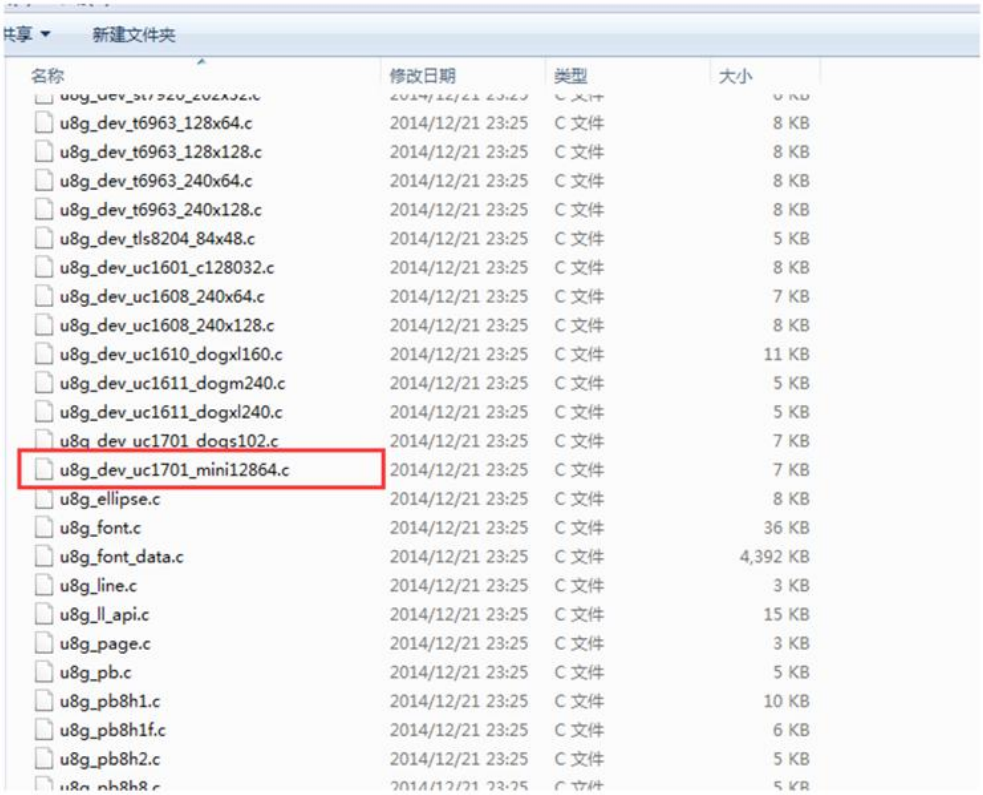
Default_Version.h
#define ABS_PREHEAT_HOTEND_TEMP 240
#define ABS_PREHEAT_HPB_TEMP 110
#define ABS_PREHEAT_FAN_SPEED 0 // Insert Value between 0 and 255
//============================LCD and SD support============================
// @section lcd
// Define your display language below. Replace (en) with your language code and uncomment.
// en, pl, fr, de, es, ru, bg, it, pt, pt_utf8, pt-br, pt-br_utf8, fi, an, nl, ca, eu, kana
// See also language.h
#define LANGUAGE_INCLUDE GENERATE_LANGUAGE_INCLUDE(cn)
language switch
// Choose ONE of these 3 charsets. This has to match your hardware. Ignored for full graphi
// To find out what type you have - compile with (test) - upload - click to get the menu. Y
// See also https://github.com/MarlinFirmware/Marlin/wiki/LCD-Language
#define DISPLAY_CHARSET_HD44780_JAPAN // this is the most common hardware
//#define DISPLAY_CHARSET_HD44780_WESTERN
//#define DISPLAY_CHARSET_HD44780_CYRILLIC

How to Adjust the Contract Value

Open *X:xxxx/Arduino/libraries/U8glib/utility,*
and find *u8g_dev_uc1701_mini12864.c.* Recommend Notepad++

1. 打开 Arduino 安装目录下的 X:xxxx\Arduino\libraries\U8glib\utility 中的“u8g_dev_uc1701_mini12864.c”，推荐打开工具 Notepad++；



2. 找到“0x027, /* contrast value */”这句，将 0x027 值调大，则亮度会加亮，例如改成 0x02A。

Find "0x027,/*contract value,increase the value,such as 0x02a.