FYSETC / **FYSETC-Mini-12864-Panel**

This is a opensouce, cheap, with RGB indicator, common to Marlin's display, supports offline printing, resolution is 12864, display area is 2.4'', SD card holder can be side or vertical, convenient for different installation occasions Ideal for small 3D printers.

www.aliexpress.com/item/32970936729.html

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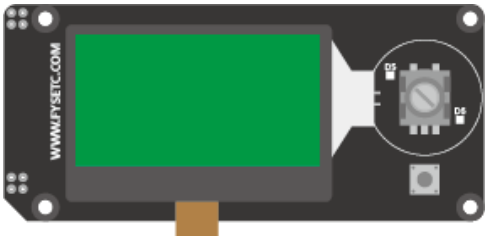
eliwong add the specification of the screen ... on 8 May 2019 3

View code

README.md

Mini-12864-Panel

Product Introduction



这是一个便宜，带RGB指示灯，通用于marlin的显示屏，支持脱机打印，分辨率为12864，显示区域为2.4''，SD卡座可以为侧式或者立式，方便不同的安装场合，非常适用于小型3D打印机。

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There are two versions, one with only two RGB LEDs around the encoder, the backlight is fixed color; the other one backlight is also RGB.

Features

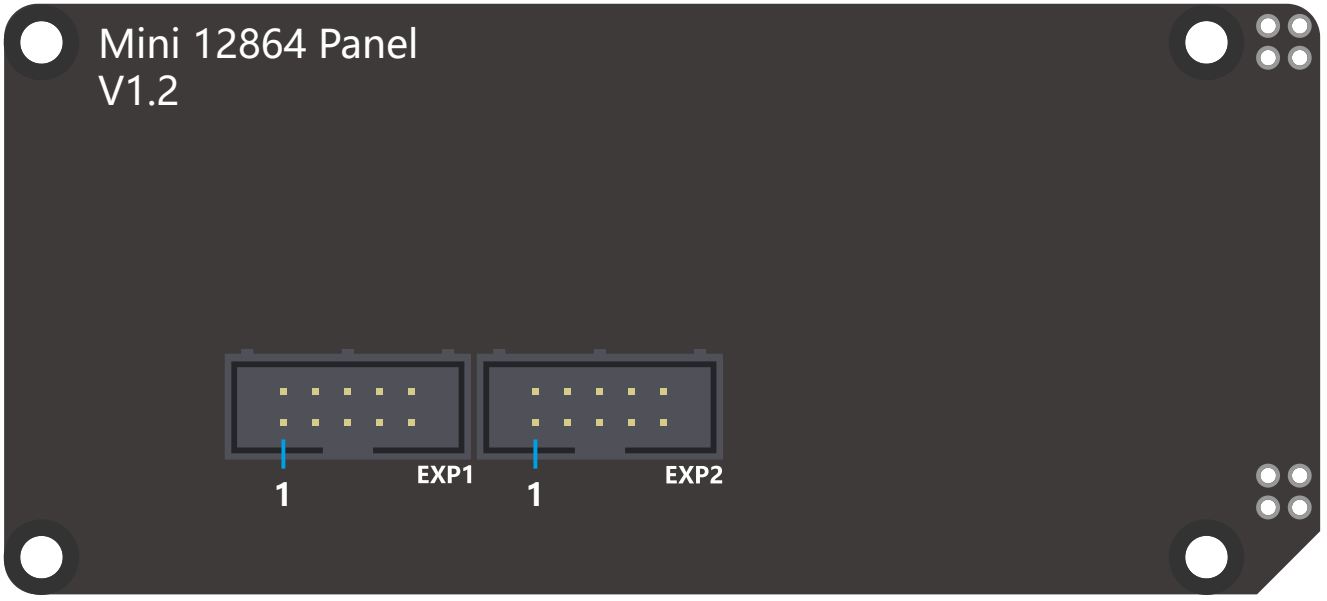
- 2.4" inch high contrast Graphic LCD

- Black-gray/black-green/white-black/white-blue/green-black, 5 display styles
- SPI communication to host micro-controller
- Support Vertical or side SD slot with card detect
- Rotary Encoder
- Configurable RGB LED light
- Software configurable contrast setting
- 3D printable case and mount STL file
- EXP1 & EXP2 RAMPS Compatible socket

Application

3D printer， CNC machines ， Other micro controller projects

Typical Wiring

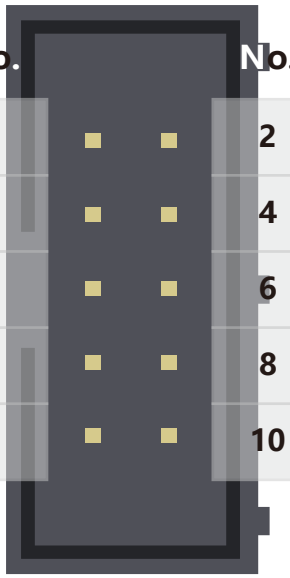


EXP1 Define

Mini 12864	RAMPS PIN	RAMPS Def.	No.	No.	RAMPS Def.	RAMPS PIN	Mini 12864
VCC	VCC	VCC	1	2	GND	GND	GND
BLUE	D29	LCD_D7	3	4	LCD_D6	D27	GREEN
RED	D25	LCD_D5	5	6	LCD_D4	D23	LCD RST
LCD A0	D16	LCD_RS	7	8	LCD_EN	D17	LCD CS
BTN_ENC	D35	BTN_ENC	9	10	BEEP	D37	BEEP

EXP2 Define

Mini 12864	RAMPS PIN	RAMPS Def.	No.		No.	RAMPS Def.	RAMPS PIN	Mini 12864
KILL	D41	KILL	1		2	GND	GND	GND
RST	RST	RST	3		4	CD	D49	CD
MOSI	D51	MOSI	5		6	BTN_EN2	D33	BTN_EN2
SS	D53	SS	7		8	BTN_EN1	D31	BTN_EN1
SCK	D52	SCK	9		10	MISO	D50	MISO



Firmware config

This screen driver is ST7567 and is compatible with the marlin Mini panel. It has been tested well, but the following configuration is required.

Before you start, please install the latest version of U8glib.

Step1. changes the pins.

On a RAMPS-compatible board, you need to make the following changes in pins_RAMPS.h:

```
#elif ENABLED(MINIPANEL)
     #define BEEPER_PIN 37
     // Pins for DOGM SPI LCD Support
     #define DOGLCD_A0  16
     #define DOGLCD_CS  17
     #define LCD_BACKLIGHT_PIN -1 // backlight LED on A11/D65
     #define LCD_RESET_PIN  23
     #define SDSS   53

     #define KILL_PIN -1
     #define LCD_CONTRAST 200
     #define BTN_EN1 31
     #define BTN_EN2 33
     #define BTN_ENC 35  //the click switch

     #define SD_DETECT_PIN 49
```

On a our F6 board, you need to make the following changes in pins_FYSETC_F6_V13.h:

```
//////////////////////////
// LCDs and Controllers //
//////////////////////////

    // #define LCD_PINS_RS         16
```

```
// #define LCD_PINS_ENABLE     17
// #define LCD_PINS_D4         23
// #define LCD_PINS_D5         25
// #define LCD_PINS_D6         27
// #define LCD_PINS_D7         29

// Pins for DOGM SPI LCD Support
#define DOGLCD_A0  16
#define DOGLCD_CS  17
#define LCD_BACKLIGHT_PIN -1
#define LCD_RESET_PIN  23
#define LCD_CONTRAST 255

#define SDSS   53
#define BEEPER_PIN          37
#define BTN_EN1             31
#define BTN_EN2             33
#define BTN_ENC             35
#define SD_DETECT_PIN       49
#define KILL_PIN            41
```

Step2. Config the configuration.h.

```
1665 //
1666 // MakerLab Mini Panel with graphic
1667 // controller and SD support - http://reprap.org/wiki/Mini_panel
1668 //
1669   #define MINIPANEL
```

```
1859 #define RGB_LED
1860 //#define RGBW_LED
1861
1862 #if ENABLED(RGB_LED) || ENABLED(RGBW_LED)
1863   #define RGB_LED_R_PIN 25
1864   #define RGB_LED_G_PIN 27
1865   #define RGB_LED_B_PIN 29
1866   #define RGB_LED_W_PIN -1
1867 #endif
```

Step3. Config the configuration_adv.h.

```
549 /**
550  * LED Control Menu
551  * Enable this feature to add LED Control to the LCD menu
552  */
553 #define LED_CONTROL_MENU
554 #if ENABLED(LED_CONTROL_MENU)
555   #define LED_COLOR_PRESETS                 // Enable the Preset Color menu option
556   #if ENABLED(LED_COLOR_PRESETS)
557     #define LED_USER_PRESET_RED        255  // User defined RED value
558     #define LED_USER_PRESET_GREEN      128  // User defined GREEN value
559     #define LED_USER_PRESET_BLUE         0  // User defined BLUE value
560     #define LED_USER_PRESET_WHITE      255  // User defined WHITE value
561     #define LED_USER_PRESET_BRIGHTNESS 255  // User defined intensity
562     #define LED_USER_PRESET_STARTUP       // Have the printer display the user preset color on startup
563   #endif
564 #endif // LED_CONTROL_MENU
```

Step4. add the codes in ultralcd_impl_DOGM.h.

```
#if DISABLED(MINIPANEL) // setContrast not working for Mini Panel
  u8g.setContrast(lcd_contrast);
#endif

u8g.setContrast(255);

#if ENABLED(LCD_SCREEN_ROT_90)
  u8g.setRot90();   // Rotate screen by 90°
#elif ENABLED(LCD_SCREEN_ROT_180)
  u8g.setRot180();  // Rotate screen by 180°
#elif ENABLED(LCD_SCREEN_ROT_270)
  u8g.setRot270();  // Rotate screen by 270°
#endif
```

Attention

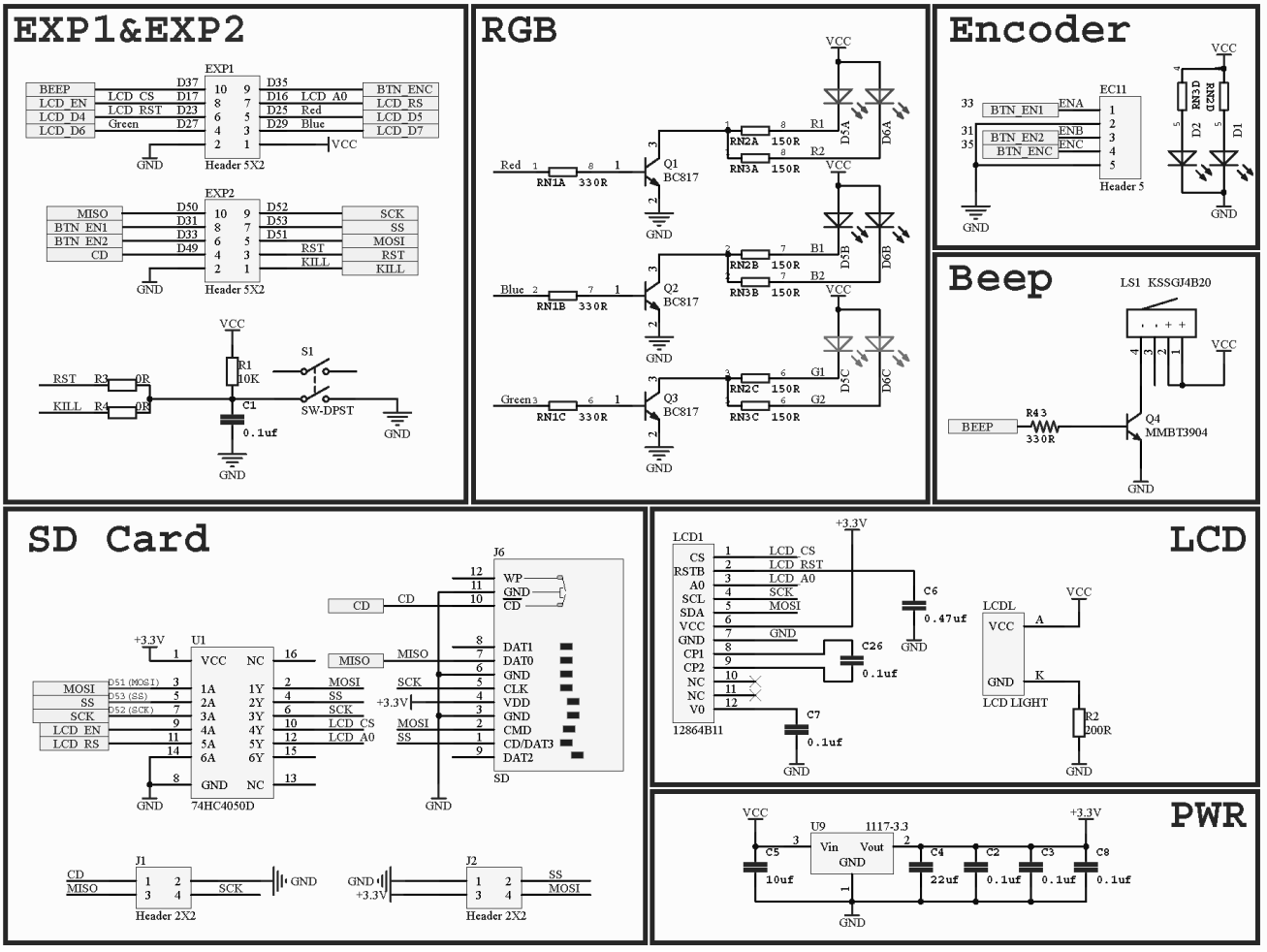
-TBD-

FAQ

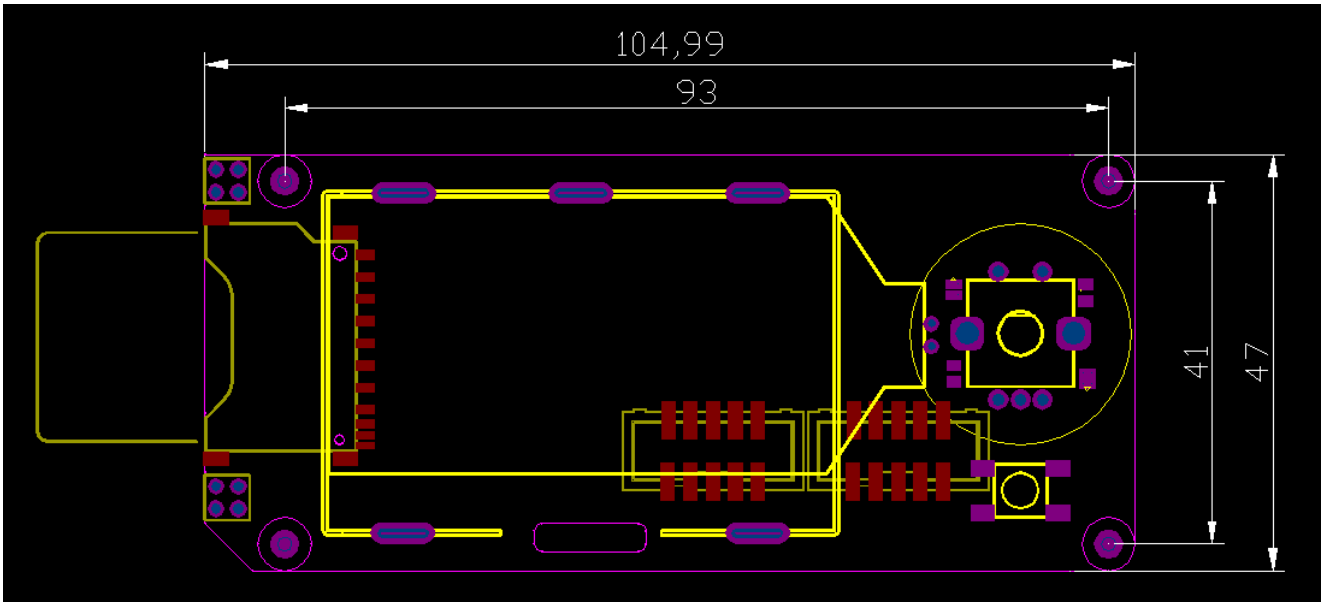
-TBD-

Attachments

1. Schematic



2. Dimensions



For detailed dimensions please check dwg/step file on github.

Shop

- LCD

Tech Support

Please submit any technical issue into our forum

Releases

No releases published

Packages

No packages published