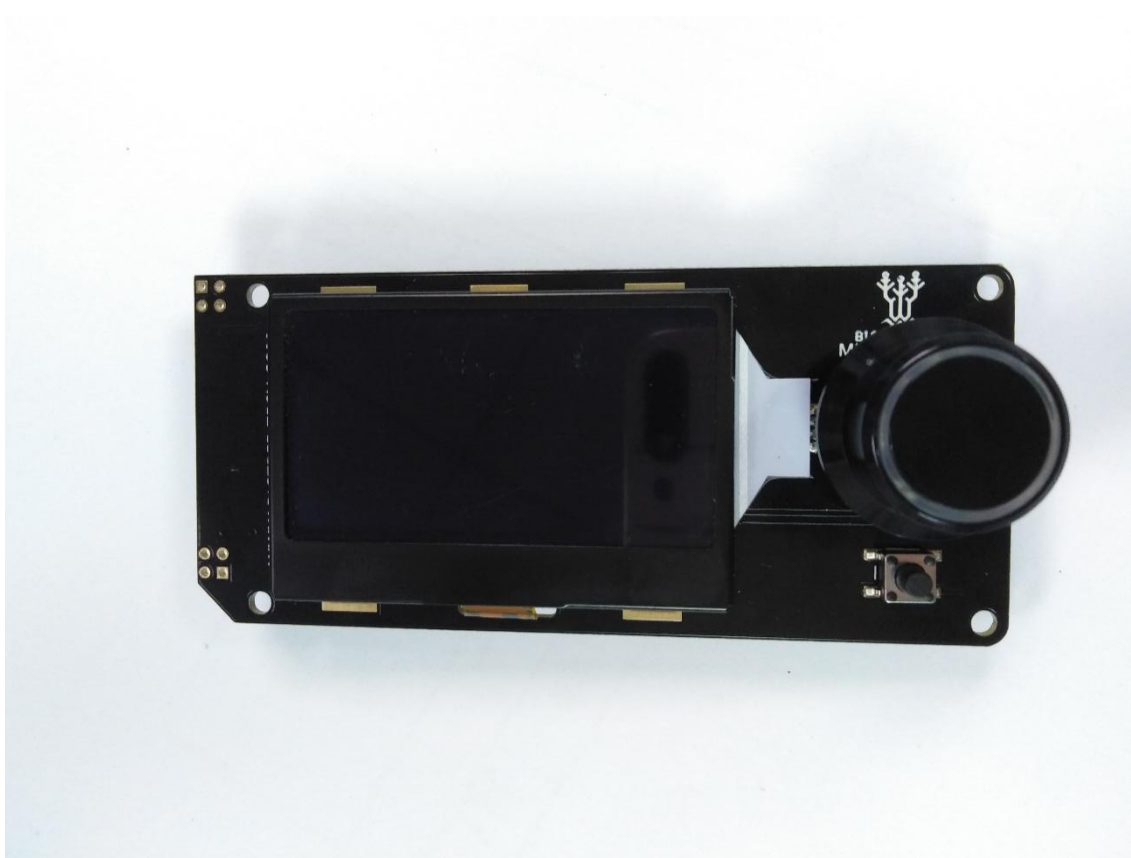


BIGTREETECH

MINI12864

User Guide



1 Product introduction

BIGTREETECH MINI12864 V1.0 is a medium-sized 3D printing display with RGB backlight which is launched by Shenzhen BIGTREETECH Technology Co., Ltd. 3D printing Team.

1. Features:

- 1) Mini12864 includes EXP1, EXP2, where EXP1 and EXP2 are LCD screen interfaces for ordinary motherboards.
- 2) It features multicolored RGB backlight, making it look cooler.

2. Specification:

Appearance size: 104.99mm * 47mm

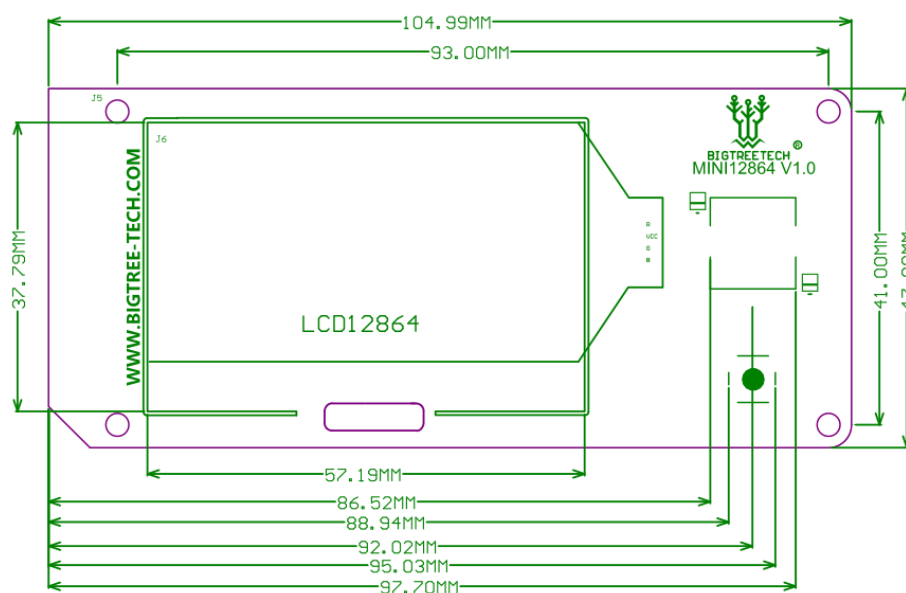
Mounting size: More details see mini 12864 size

Power input: DC 5V

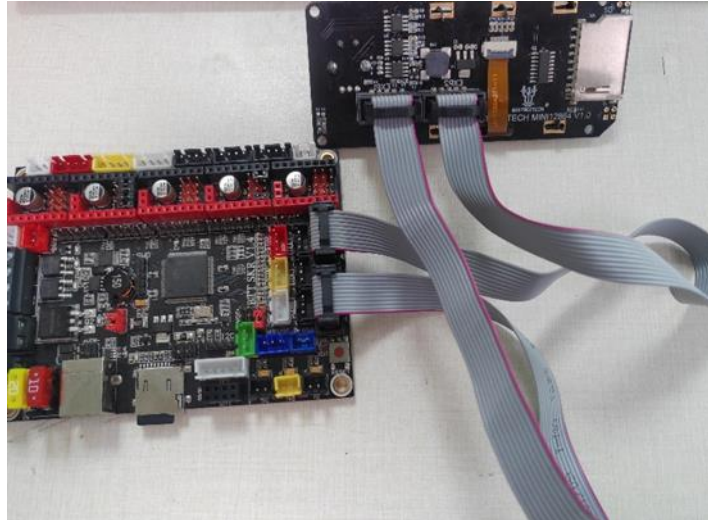
SD card logic voltage: 3.3V and 5V (e.g. Higher compatibility for the motherboard with MEGA2560 main control chip)

2 Interfaces on the screen

1. Dimensions



2. Wiring diagram



The above figure shows the connection between BTT SKR v1.4 and BIGTREETECH MINI 12864 v1.0

Notes:

1. Same as LCD 12864, it connects with EXP1 and EXP 2 of the motherboard.
2. The backlight can be set with its interface.

3 Firmware Instructions

The screen will be shipped with a test firmware, which can be used directly, or upgraded according to the firmware updates at our Github website.

1. How to obtain firmware

Ask our service person or technicians to get it;

Log in to our Github website to download: <https://github.com/bigtreotech>

2. How to update the Firmware

① In Configuration.h

Uncomment BTT_MINI_12864_V1 and NEOPIXEL LED

```

C Configuration.h 1, M X
Marlin > C Configuration.h > ...
2461
2462 //
2463 // BigTreeTech Mini 12864 V1.0 is an alias for FYSETC_MINI_12864_2_1. Type A/B. NeoPixel RGB Backlight.
2464 //
2465 #define BTT_MINI_12864_V1
2466

2358 // Support for Adafruit NeoPixel LED driver
2359 #define NEOPIXEL_LED
2360 #if ENABLED(NEOPIXEL_LED)
2361 #define NEOPIXEL_TYPE NEO_GRB // NEO_GRBW / NEO_GRB - 4
2362 // #define NEOPIXEL_PIN 4 // LED driving pin
2363 // #define NEOPIXEL2_TYPE NEOPIXEL_TYPE
2364 // #define NEOPIXEL2_PIN 5
2365 #define NEOPIXEL_PIXELS 3 // Number of LEDs in the
2366 #define NEOPIXEL_IS_SEQUENTIAL // Sequential display for
2367 #define NEOPIXEL_BRIGHTNESS 255 // Initial brightness (0-255)
2368 // #define NEOPIXEL_STARTUP_TEST // Cycle through colors

```

② Search for `u8g.setContrast` at `ultralcd_DOGM.cpp`

Then `u8g.setContrast(contrast)` change to `u8g.setContrast(255);`

```

85
86 void MarlinUI::set_contrast(const int16_t value) {
87   contrast = constrain(value, LCD_CONTRAST_MIN, LCD_CONTRAST_MAX);
88   u8g.setContrast(255);
89 }

```

3、How to use

Power on, and then press rotary encoder



Then click Lights



Click into Lights, then click on the new Lights: “on or off”, select RGB “on and off”



RGB display can be set with Light Presets



4 Notes:

1. The wiring process must be carried out under the premise of power loss, after checking that the line is properly connected and the drive is inserted correctly before powering up, to prevent the fault wire from causing the board and screen to burn, resulting in unnecessary damage;

If you also encounter other problems in use, you are welcome to contact us, we will be patient to answer for you, if you have any good comments or suggestions on our products, you are also welcome to give back to us, we will carefully consider your comments or suggestions, thank you for choosing BIGTREETECH products, thank you!