

Introduction

RAMPS 1.6 is the second RAMPS iteration released by BIQU/BIGTREETECH. It replaces the original green power connector with a pair of screw terminals, adds a larger heatsink over the MOSFETS, and has a larger bed MOSFET. It maintains the surface-mounted fuses and flush MOSFETS of the RAMPS 1.5. Also, the positions of the D1 and D2 diodes have been swapped from the positions in RAMPS 1.4, the D1 diode is now the diode closest to fuse F2. The same is true for RAMPS 1.5, also manufactured by BIQU/BIGTREETECH. RAMPS1.6 is optimized and launched based on RAMPS1.4 by Biqu R & D team

They change the original plug-in MOS tube to patch-type MOS tube in order to solve the problem of plug-in MOS tube easy to break, take up a large area, poor heat dissipation , which can improve the stability and aesthetics of the board

The features of multiple extended interface and replaceable parts make RAMPS1.6 become a control board with powerful upgrade capability and scalable modularity

The controller board can be used when the pins on the back of the board are connected to the Arduino Mega and the front is connected to stepper motor drives

Specification

Size: 101.5 * 60.5mm

Voltage:12V

Power: 200W

Patch MOS tube: B55NF06

Support motor drivers: support A4988,DRV8825 and other motor drivers(support five motor drivers Simultaneously)

- 1.It can be connected to LCD and other parts.
- 2.There are heater and fan MOSFET outputs and 3 thermistor interfaces
- 3.5A additional curity and component protection fusion
- 4.Heated bed controls additional 11A fus
- 5.Applied to 5 Pololu stepper drive board

6.Design of Pololu plate pin socket can be easily replaced or removed for future design

7.I2C and SPI pins are available for future expansion

8.rvo connectors are used for connecting limit stops, motors and light-emitting diodes.

The connectors are gold-plated and have a rated current of 3A, which is very compact.

9.The LED will light when the heater has output

10.Support 2 motors to connect to Z Prusa Mendel

Q: Why choose our ramps 1.6 type controller board ?

A: You can check the difference with the three-dimensional diagram.Our ramps 1.6 have 4 layers

.A high quality ramps 1.6 effects more than 10pcs cheaper copy board

Material: plastic, metal

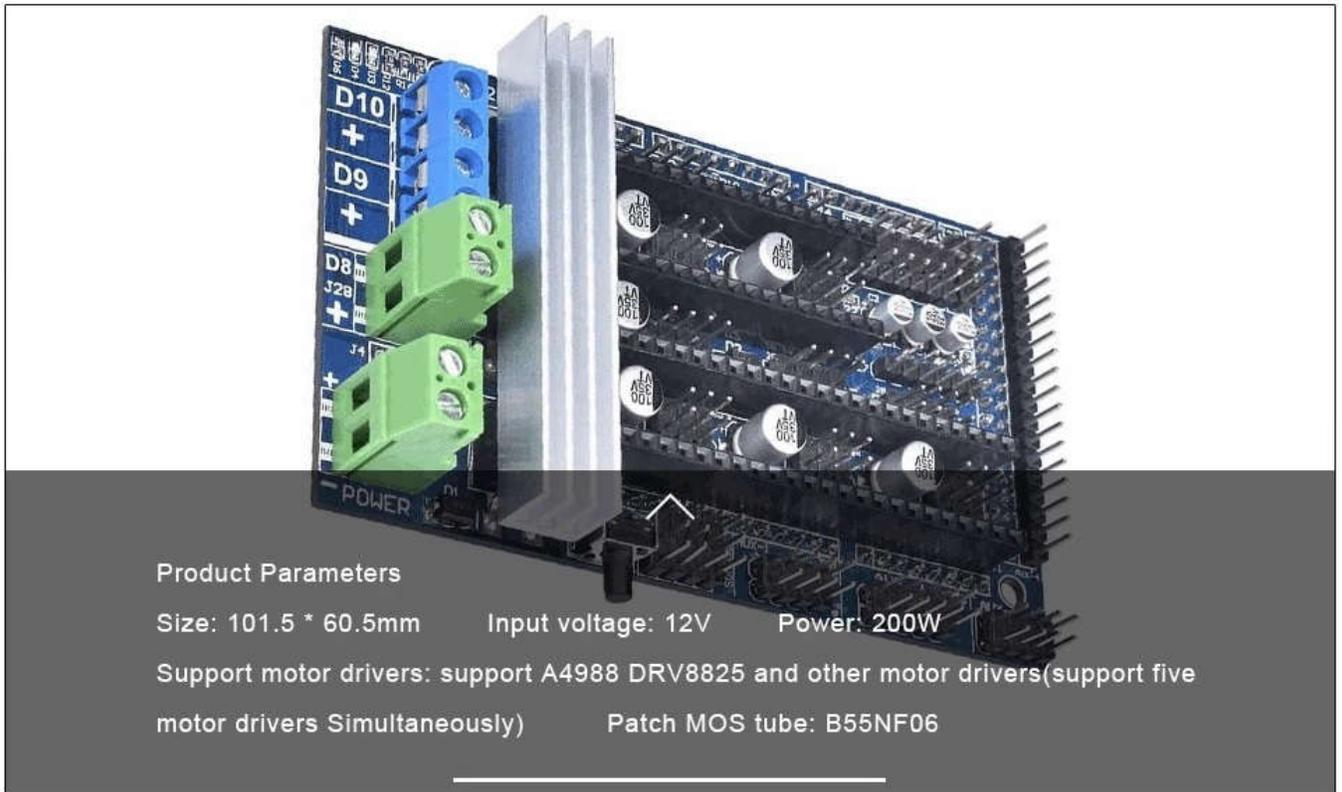
Note: Light shooting and different displays may cause the color of the item in the picture a little different from the real thing. The measurement allowed error is +/- 1-3cm.

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Product Features:

1. **4 layer board** (Some copies of Ramps 1.6 in the market are 2-layer boards, please note the identification).
2. It can be connected to LCD and other parts.
3. There are heater and fan MOSFET outputs and 3 thermistor interfaces.
4. 5A additional security and component protection fusion.
5. Heated bed controls additional 11A fuses.
6. Applied to 5 Pololu stepper drive board.
7. Design of Pololu plate pin socket can be easily replaced or removed for future design.
8. I2C and SPI pins are available for future expansion.
9. Servo connectors are used for connecting limit stops, motors and light-emitting diodes.
 These connectors are gold-plated and have a rated current of 3A, which is very compact.
10. The LED will light when the heater has output.
11. Support 2 motors to connect to Z.

