Anycubic Trigorilla Plate

May 09, 2017

Manufacturer Description

TriGorilla is a main board developed by Anycubic R&D team that integrated with the mighty function of the Mega 2560 + ramps 1.4 on respect of both software and hardware and has more premium features; the streamlined interfaces avoid the unnecessary troubles effectively and power than Ramps 1.4 + Mega2560, it is a feature rich all-in-one electronics solution for Reprap Mendel Prusa and other CNC devices

TriGorilla adopts DC-DC step-down scheme design and Recoverable fuse for short-circuit protection, improving the MEGA2560 board serious heating problem. Allowing any power supply from 10V-30V

Specifications:

Main Control Chip: ATMEGA256016AU

Input Power: 10V ~ 30V

Standby Current: 35mA ± 5mA

Stepper Motor Drivers: 5 channel Max

Hot bed Output Control: 1 channel

Heated output control: 2 channel

Under-current output control: 3 channel

Dimensions: 125mm x 82mm

Package List:

1 * TriGorilla main board

Product Features

Integrated with the mighty function of the Mega 2560 + ramps 1.4 kit, Great reduce the wiring problem, more convenient connection, and more stable. Widely used in 3D printers like Kossel, Prusa i3, corexy, etc Firmware can use the same configuration as ramps 1.4, the marlin firmware which runs in Mega2560 + ramps 1.4 kits can run in TriGorilla board directly Adopt ATmega2560 as the main control chip, coupled with the high performance USB serial converter CP2102. Support LCD2004 and LCD12864 without using adapter Support up to 5 motor drivers, support A4988 / DRV8825 / TMC2100 driver: Motor drive circuit doesn't integration on the circuit board, you can change any stepper motor driver you need, easier to operate. TriGorilla had reserved SERVO, UART, IIC expansion, so you can control touch screen smart controller,

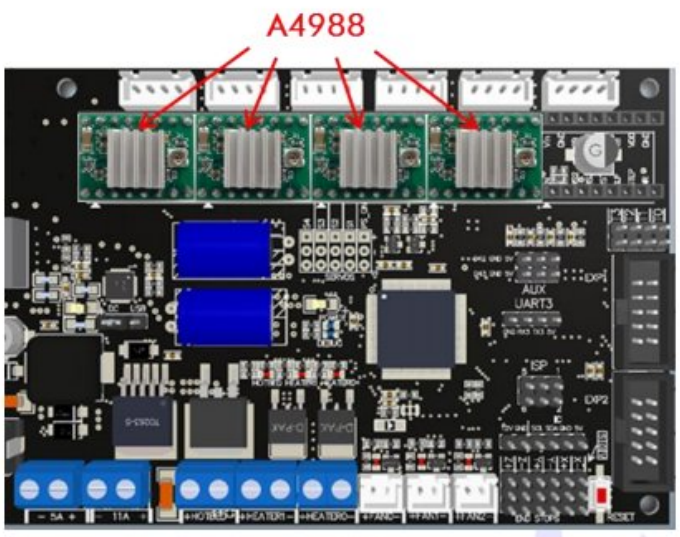
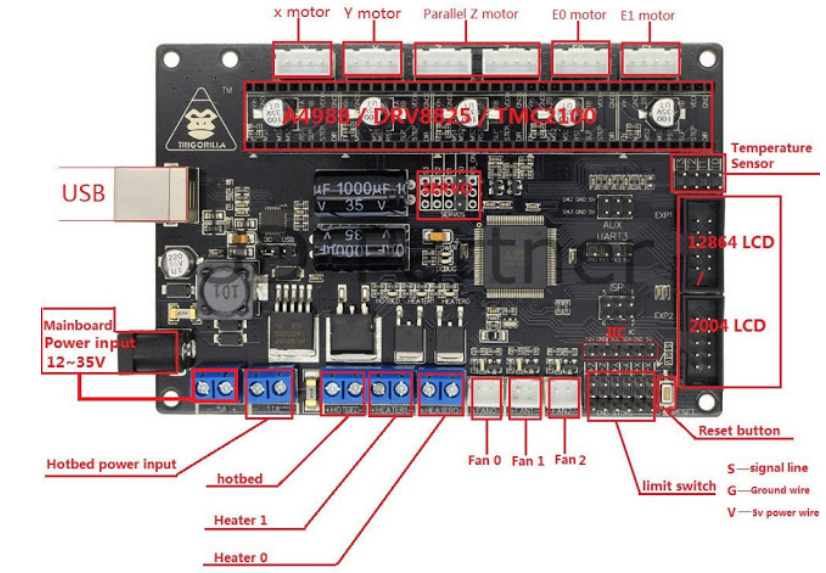
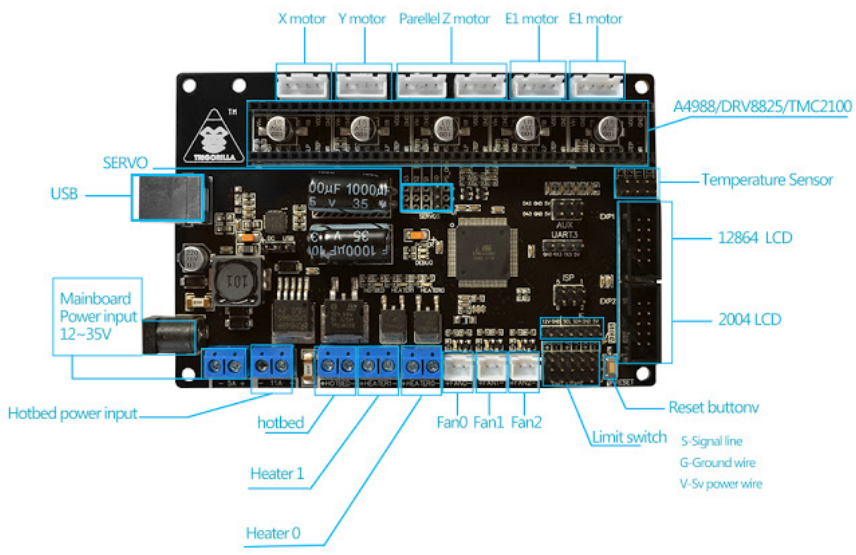


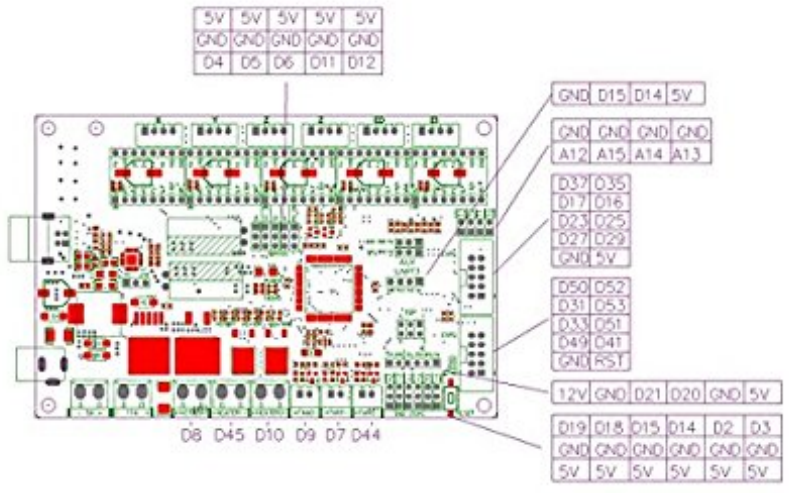
Fig. 29

Fig. 28

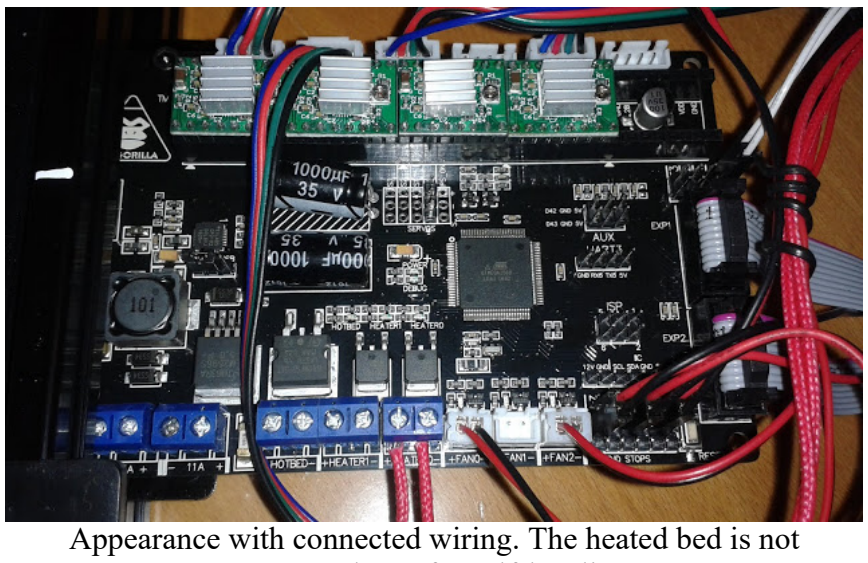




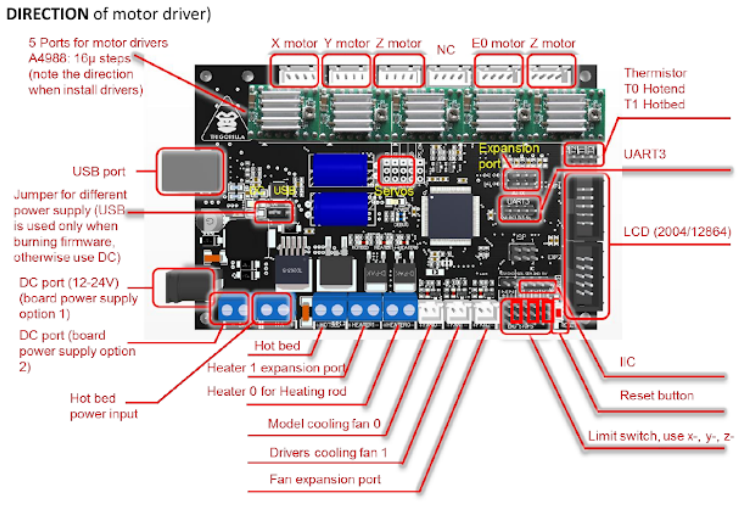
Trigorilla. What goes into each thing

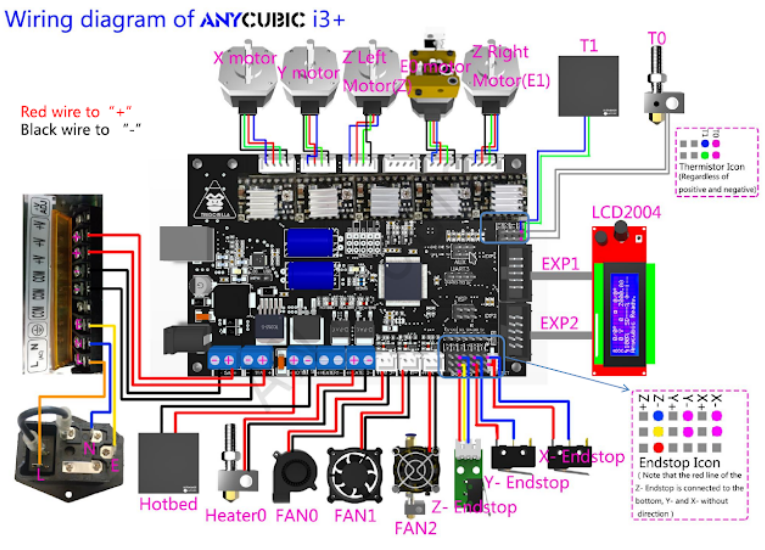


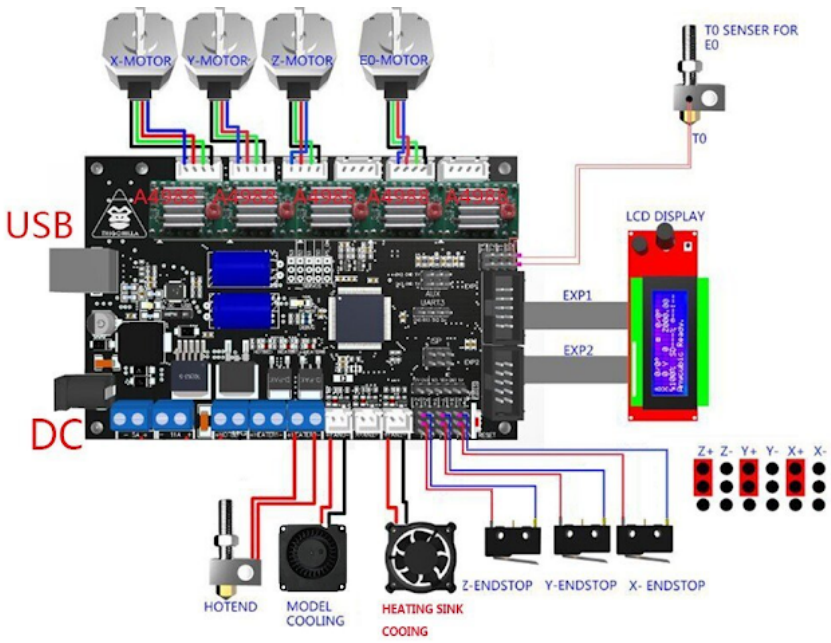
Trigorilla. Pin information



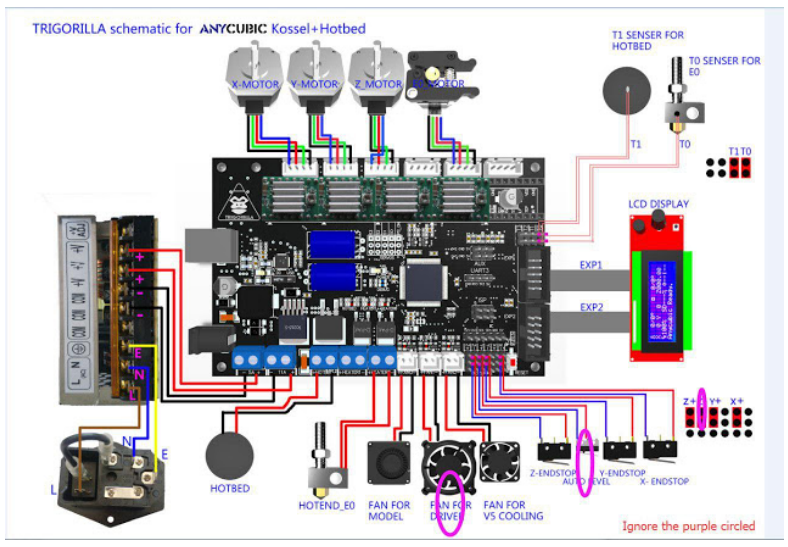
Appearance with connected wiring. The heated bed is not connected, nor for self-leveling.



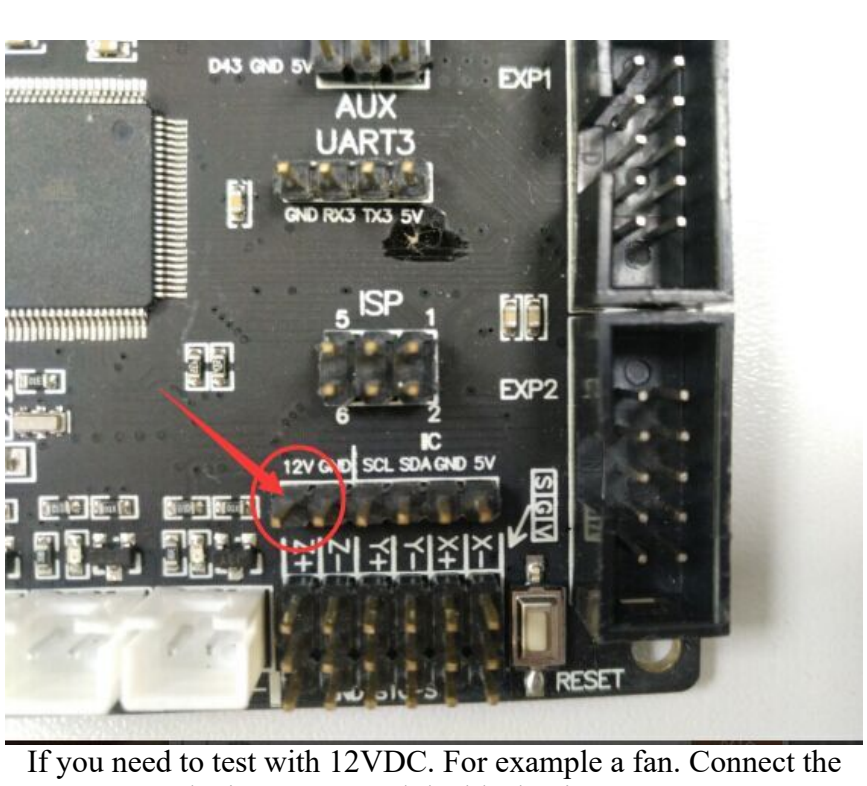




Different hardware connected to the mainboard



Differences in noise offered by the Trinamic2100 vs the A4988 at the time of printing



If you need to test with 12VDC. For example a fan. Connect the red wire to 12V and the black wire to GND.

Trigorilla DC / USB Jumper

Stl model of the

board. URL: https://www.thingiverse.com/thing:2515499