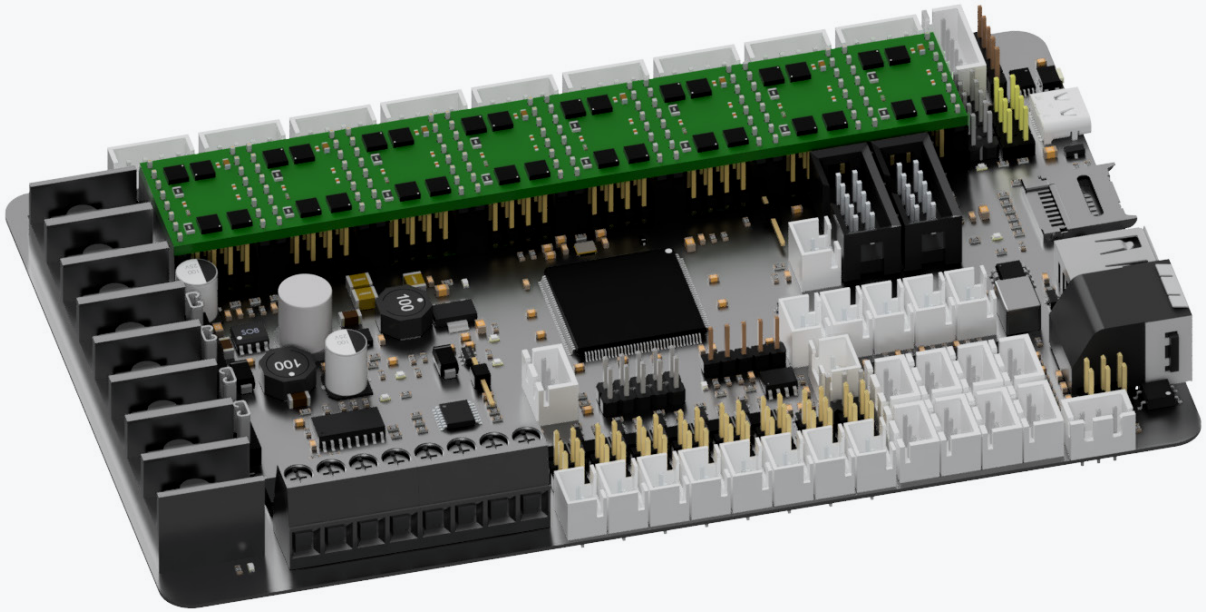


CONTROLLER BOARD

CONTROLLER BOARD

The assembly manual will outline the wiring for a Bigtreetech Octopus V1.1 board. You can find additional documentation and alternative configurations on docs.vorondesign.com.

JUMPERS

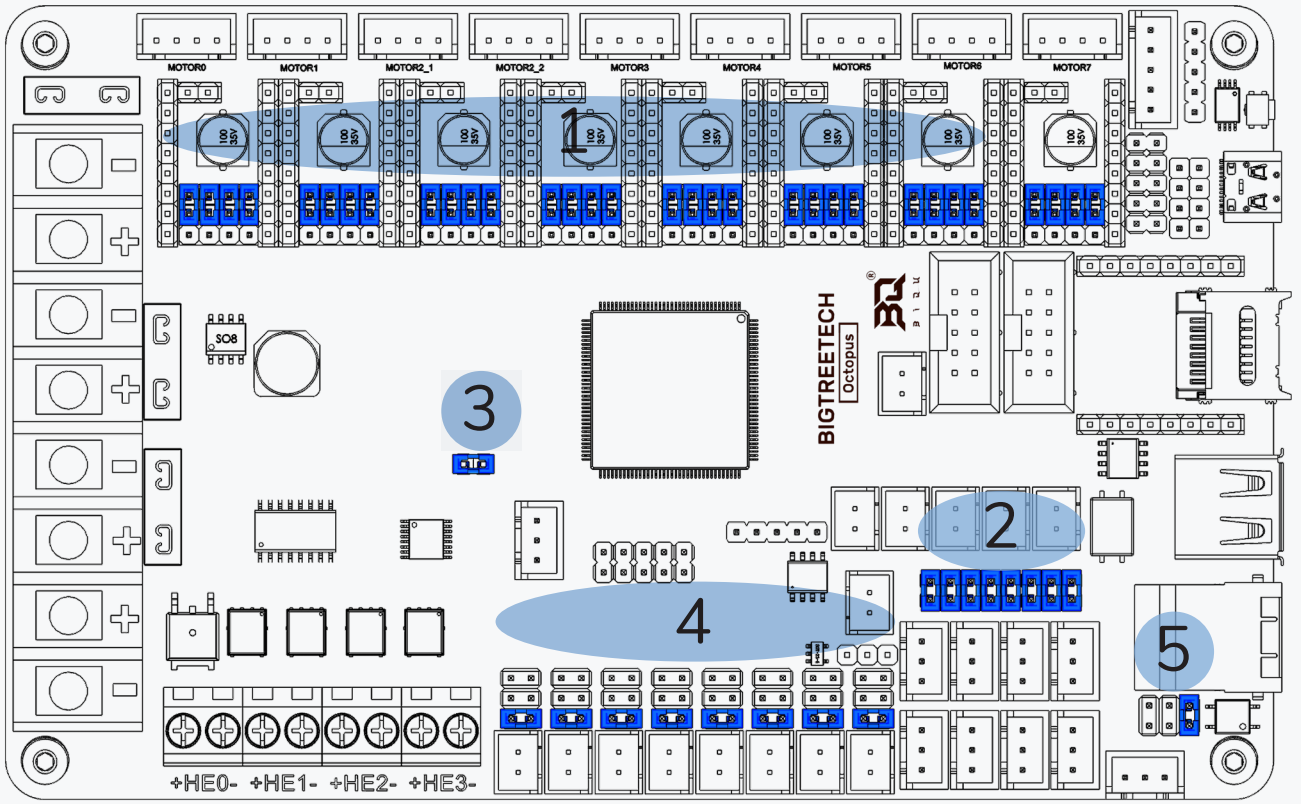
Several jumpers need to be configured on the controller board. We will begin by removing all the JUMPERS from the controller board (MCU).

1) Remove the jumpers in the “driver sockets”.

2) Remove all the jumpers in the “DIAG” header when using microswitch or Hall Effect endstops.

3) Remove the “USB 5V power supply” jumper to avoid the interaction between the USB 5V of Raspberry Pi and the 5V of the MCU.

4) Remove all the jumpers on the “Fan Voltage Selection” headers so that you can set the correct supply voltage.



5) Remove the jumper in “Probe Voltage Selection” header so that you can set it to the correct supply voltage.

Diagram courtesy of @GadgetAngel

CONTROLLER BOARD

JUMPERS

Several jumpers need to be set on the MCU.

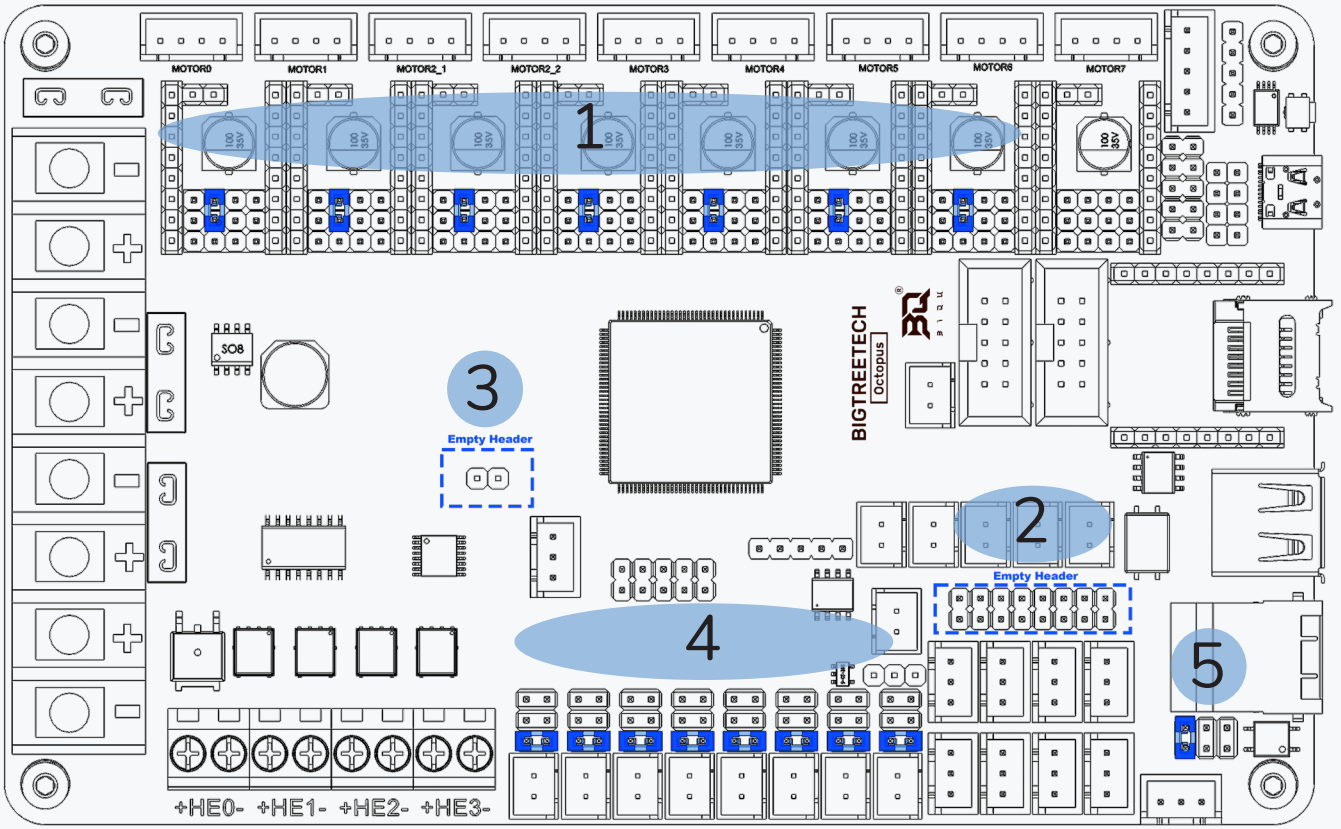
Add the following JUMPERS to the controller board (MCU).

1) Set the jumpers in the "driver sockets" as shown to set TMC2209 UART mode.

2) Ensure all the jumpers in the "DIAG" header are removed.

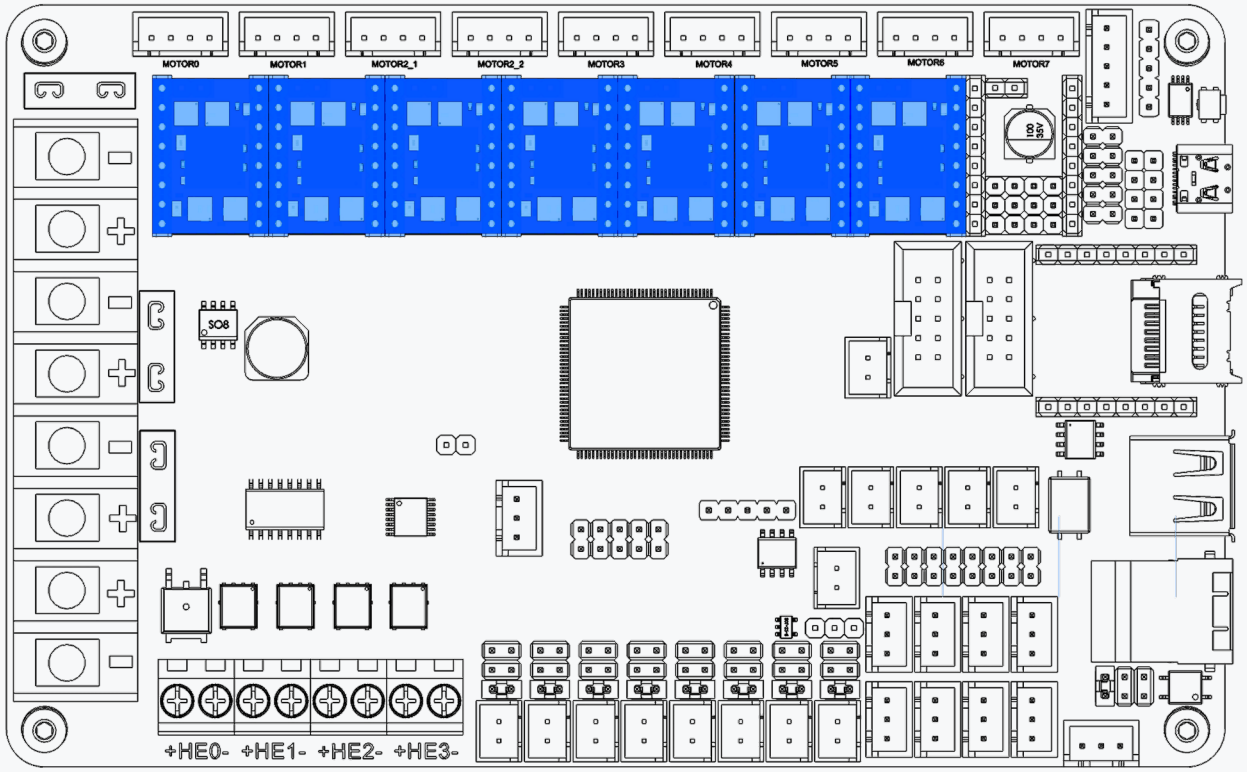
3) Ensure the Power Selection header is empty.

4) Set the Jumpers for the "Fan Voltage Selection" header so they match your fan's voltage. Shown here are the settings for 24VDC.



5) Set the jumper in "Probe Voltage Selection" header to 24VDC.

Diagram courtesy of @GadgetAngel



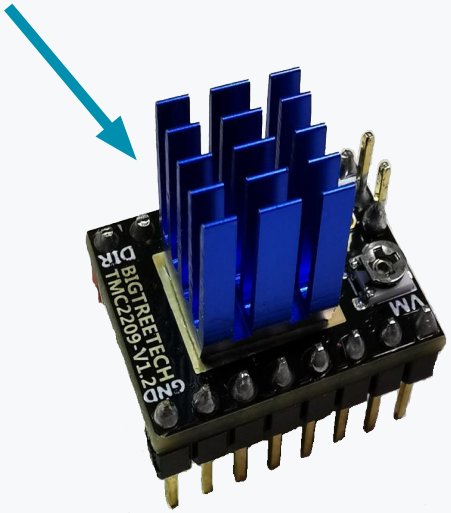
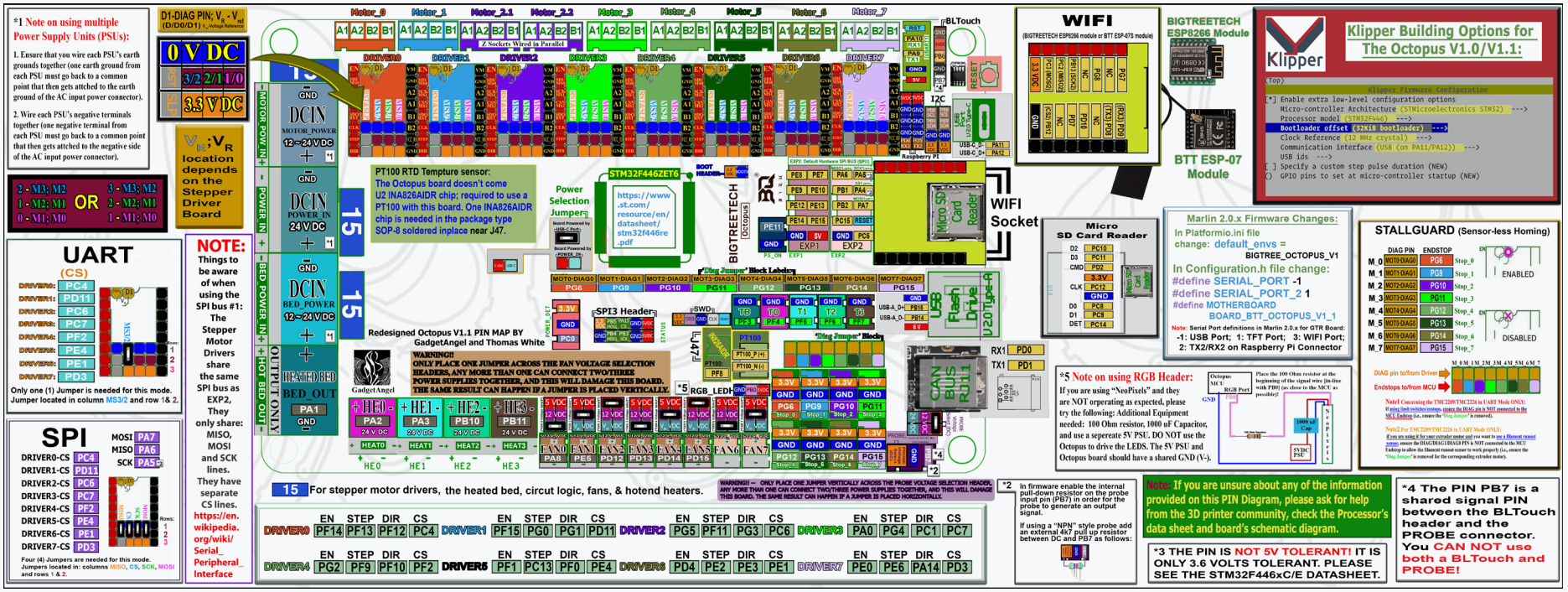


Diagram courtesy of @GadgetAngel

OCTOPUS PINOUT REFERENCE

This Coloured PIN diagram can be found on GadgetAngel's GitHub repository for the Octopus V1.1



The original PIN diagram can be found on Bigtreetech's GitHub repository for Octopus V1.1

Diagram courtesy of @GadgetAngel

A year later this figure grew to 350 Voron2 printers.