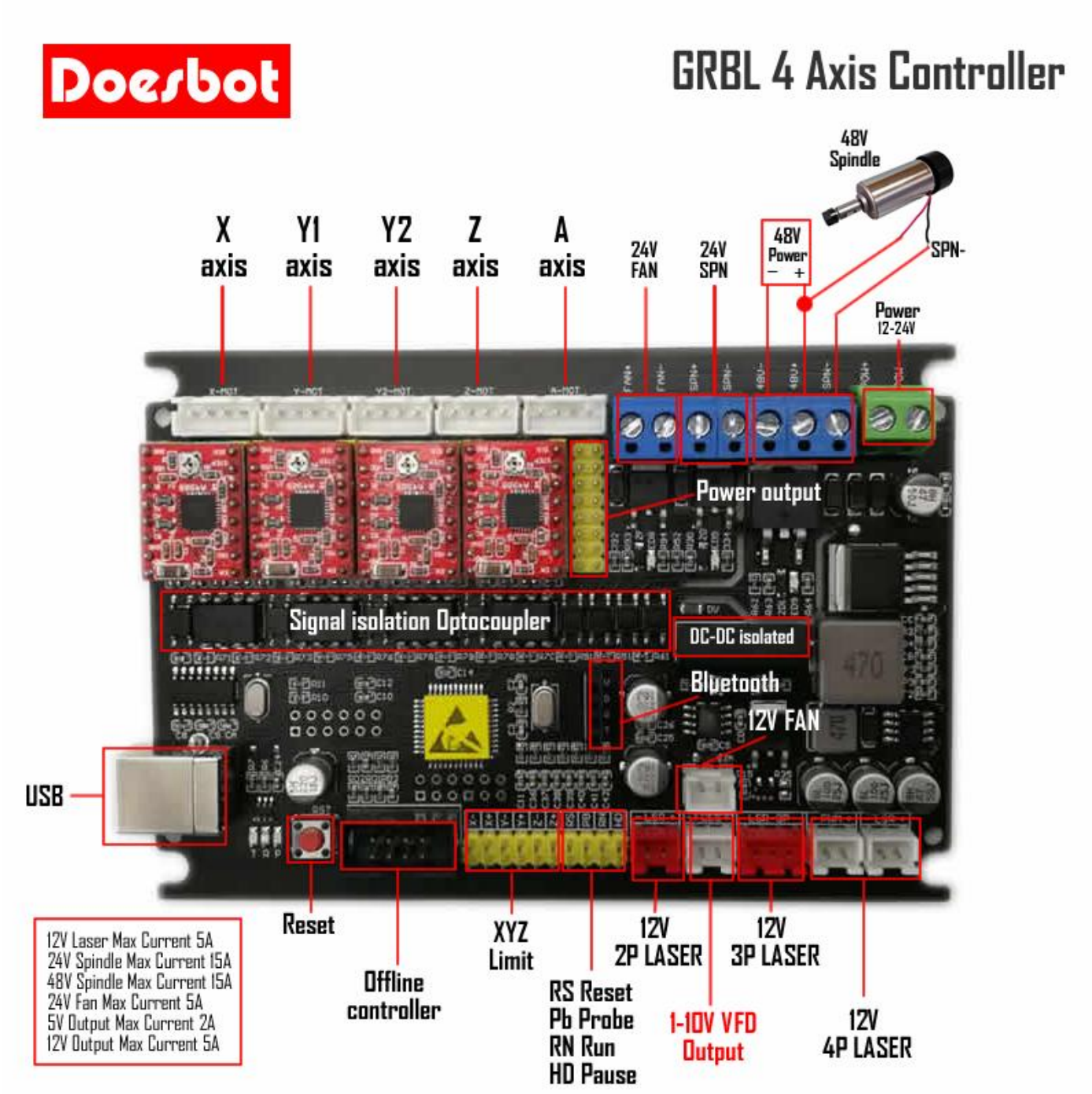


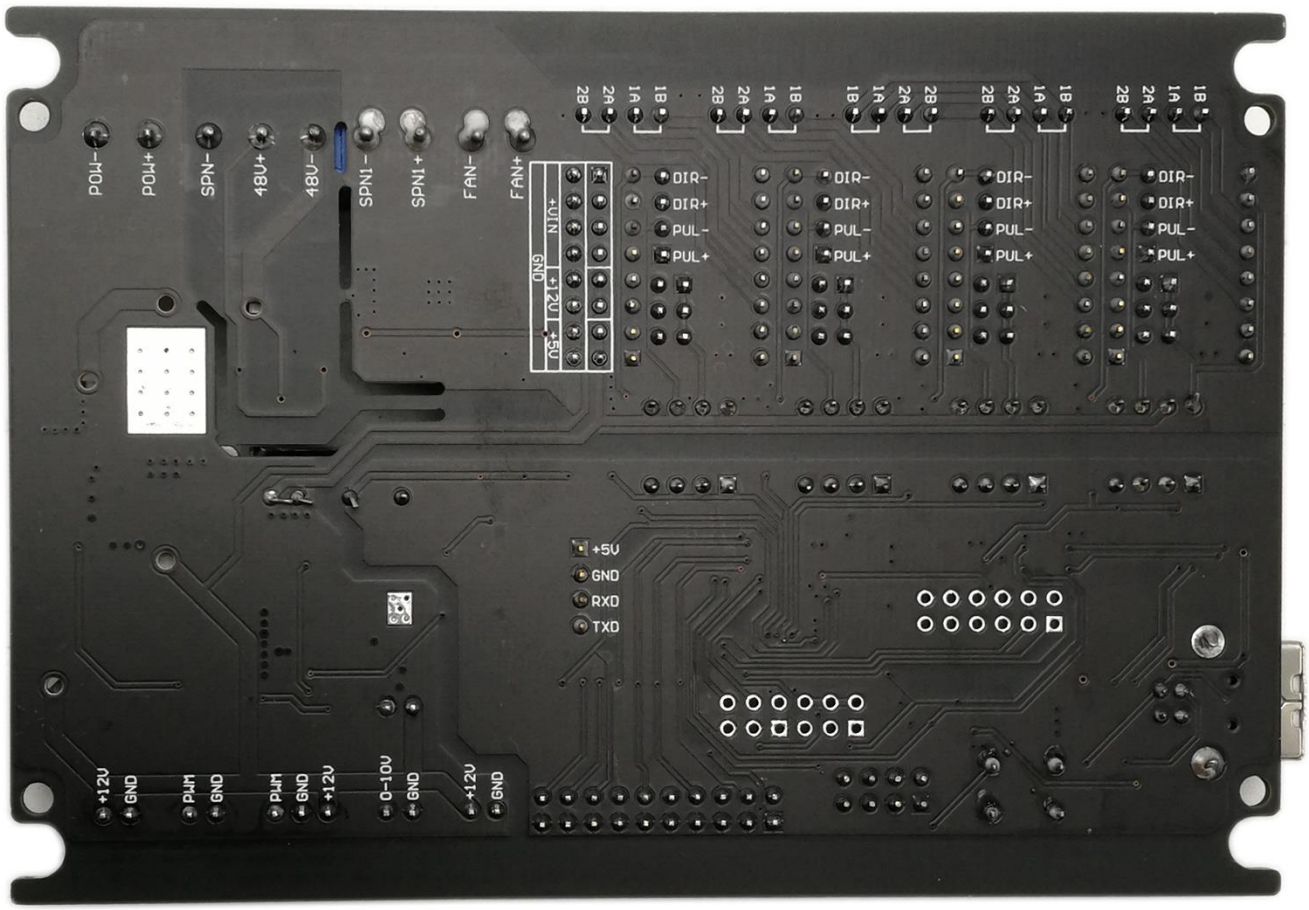
Please note the positive and negative poles, make the right connection.

Grbl Wiki
https://github.com/gnea/grbl/wiki

Recommended Control Software
https://github.com/Denvi/Candle

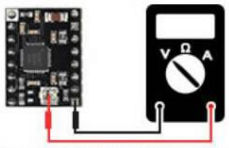
CH340 Driver
http://www.wch-ic.com/search?t=all&q=USB+to+serial+port

Current adjustment method: multimeter measures the voltage between potentiometer center and GND, A4988 only needs to plug in USB, DRV8825 and TMC2208 need to plug in 24V, Non professionals, please do not adjust at will.



Factory default current : 1.0A

Maximum drive current : 2.0A



The current setting reference voltage measurement diagram is shown as above

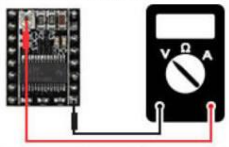
$I_{Tripmax} = V_{ref}/(8*Rcs)$ Rcs=0.1Ω

A4988

Microstep	MS1	MS2	MS3
Full Step	Low	Low	Low
1/2 Step	High	Low	Low
1/4 Step	Low	High	Low
1/8 Step	High	High	Low
1/16 Step	High	High	High

Factory default current : 2.5A

Maximum drive current : 2.5A



The current setting reference voltage measurement diagram is shown as above

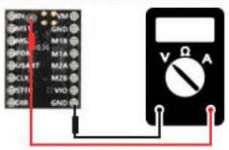
$I_{Tripmax} = V_{ref}*2.0$

DRV8825

Microstep	MS1	MS2	MS3
Full Step	Low	Low	Low
1/2 Step	High	Low	Low
1/4 Step	Low	High	Low
1/8 Step	High	High	Low
1/16 Step	Low	Low	High
1/32 Step	High	Low	High
1/32 Step	Low	High	High
1/32 Step	High	High	High

Factory default current : 1.0A

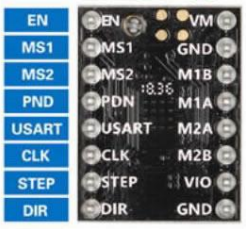
Maximum drive current : 1.4A



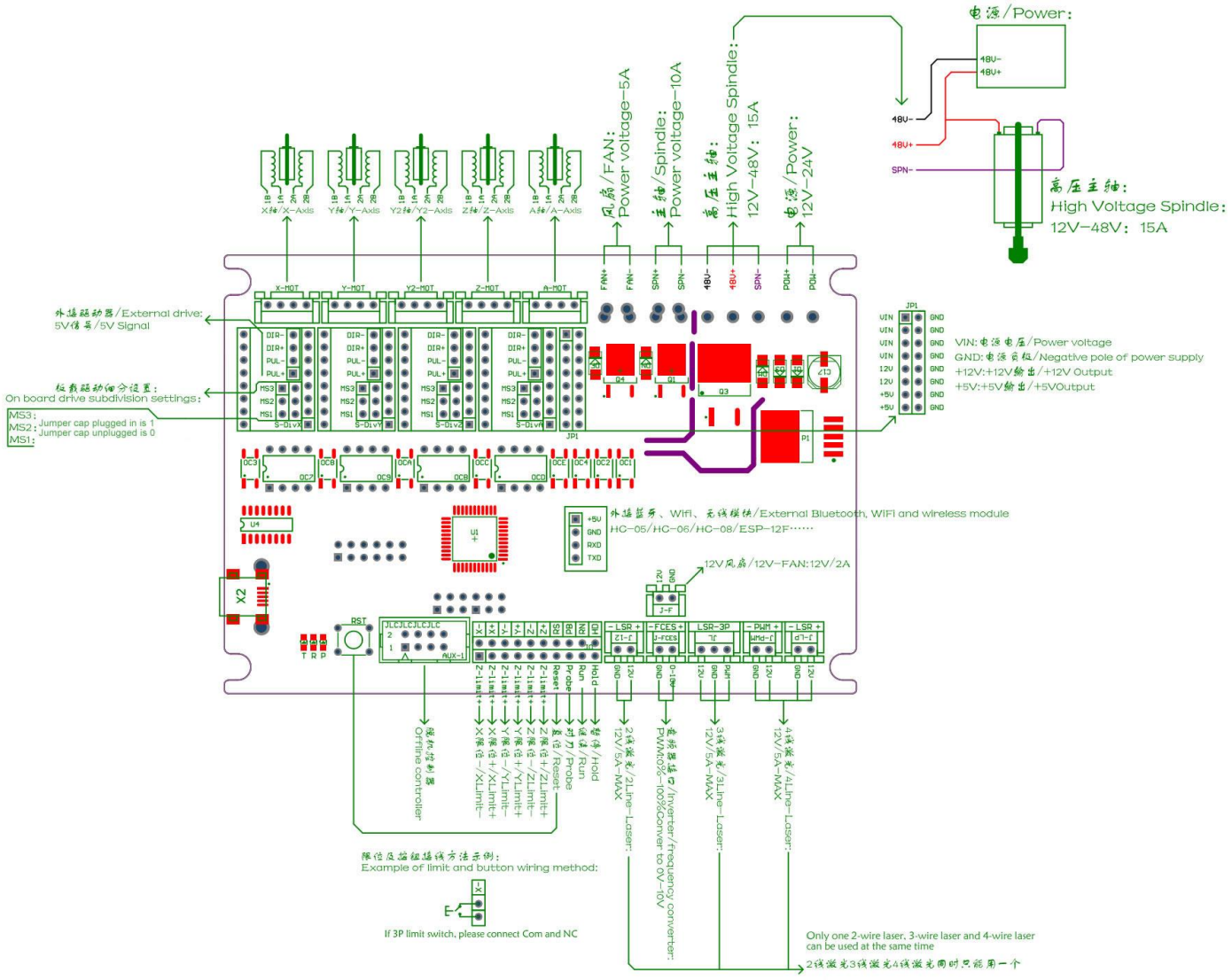
The current setting reference voltage measurement diagram is shown as above

$I_{Tripmax} = V_{ref}/1.4$

TMC2208



Microstep	MS1	MS2
1/2 Step	High	Low
1/4 Step	Low	High
1/8 Step	Low	Low
1/16 Step	High	High


电源/Power:
48V-
48V+
SPN-
高压主轴:
High Voltage Spindle:
12V-48V: 15A
风扇/FAN:
Power voltage-5A
主轴/Spindle:
Power voltage-10A
高压主轴:
High Voltage Spindle:
12V-48V: 15A
电源/Power:
12V-24V
X轴/X-Axis
Y轴/Y-Axis
Y2轴/Y2-Axis
Z轴/Z-Axis
A轴/A-Axis
外接驱动器/External drive:
5V信号/5V Signal
板载驱动细分设置:
On board drive subdivision settings:
MS3:
MS2: Jumper cap plugged in is 1
MS1: Jumper cap unplugged is 0
VIN:电源电压/Power voltage
GND:电源负极/Negative pole of power supply
+12V:+12V输出/+12V Output
+5V:+5V输出/+5VOutput
外接蓝牙、Wifi、无线模块/External Bluetooth, WIFI and wireless module
HC-05/HC-06/HC-08/ESP-12F……
12V风扇/12V-FAN:12V/2A
脱机控制器
Offline controller
限位及按钮接线方法示例:
Example of limit and button wiring method:
If 3P limit switch, please connect Com and NC
2线激光/2Line-Laser:
12V/5A-MAX
变频器接口/Inverter/frequency converter:
PWM10%-100%Conver to 0V-10V
3线激光/3Line-Laser:
12V/5A-MAX
4线激光/4Line-Laser:
12V/5A-MAX
Only one 2-wire laser, 3-wire laser and 4-wire laser can be used at the same time
2线激光3线激光4线激光同时只能用一个