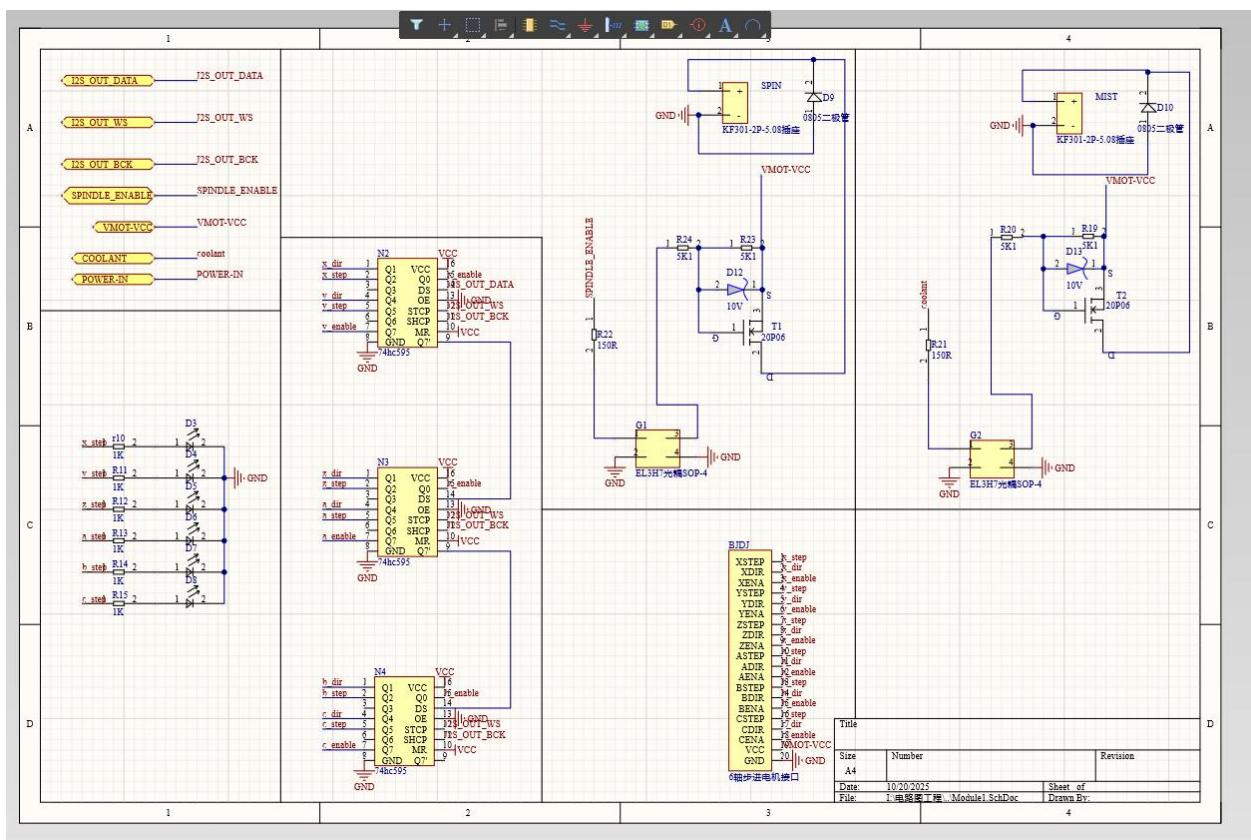
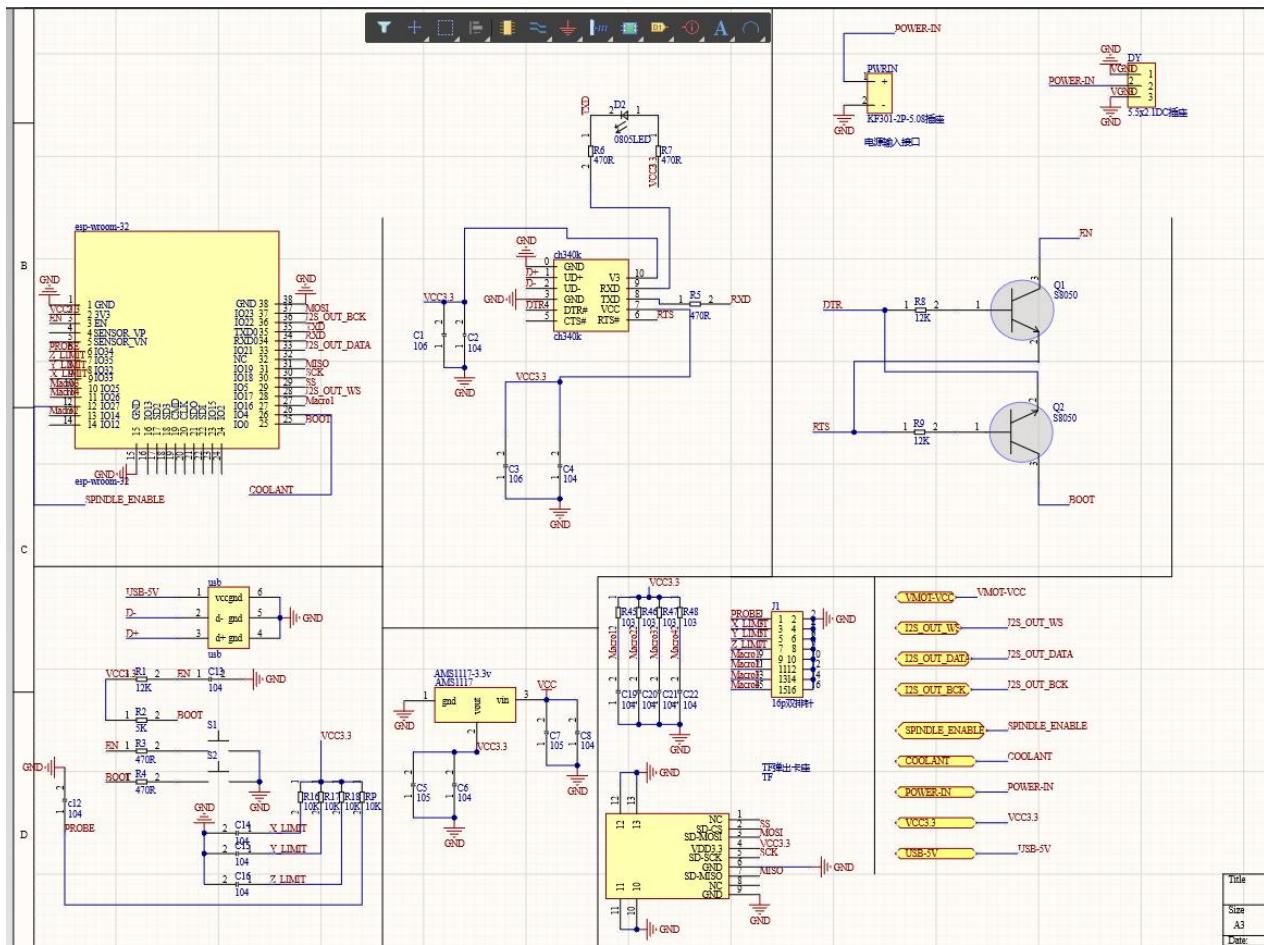


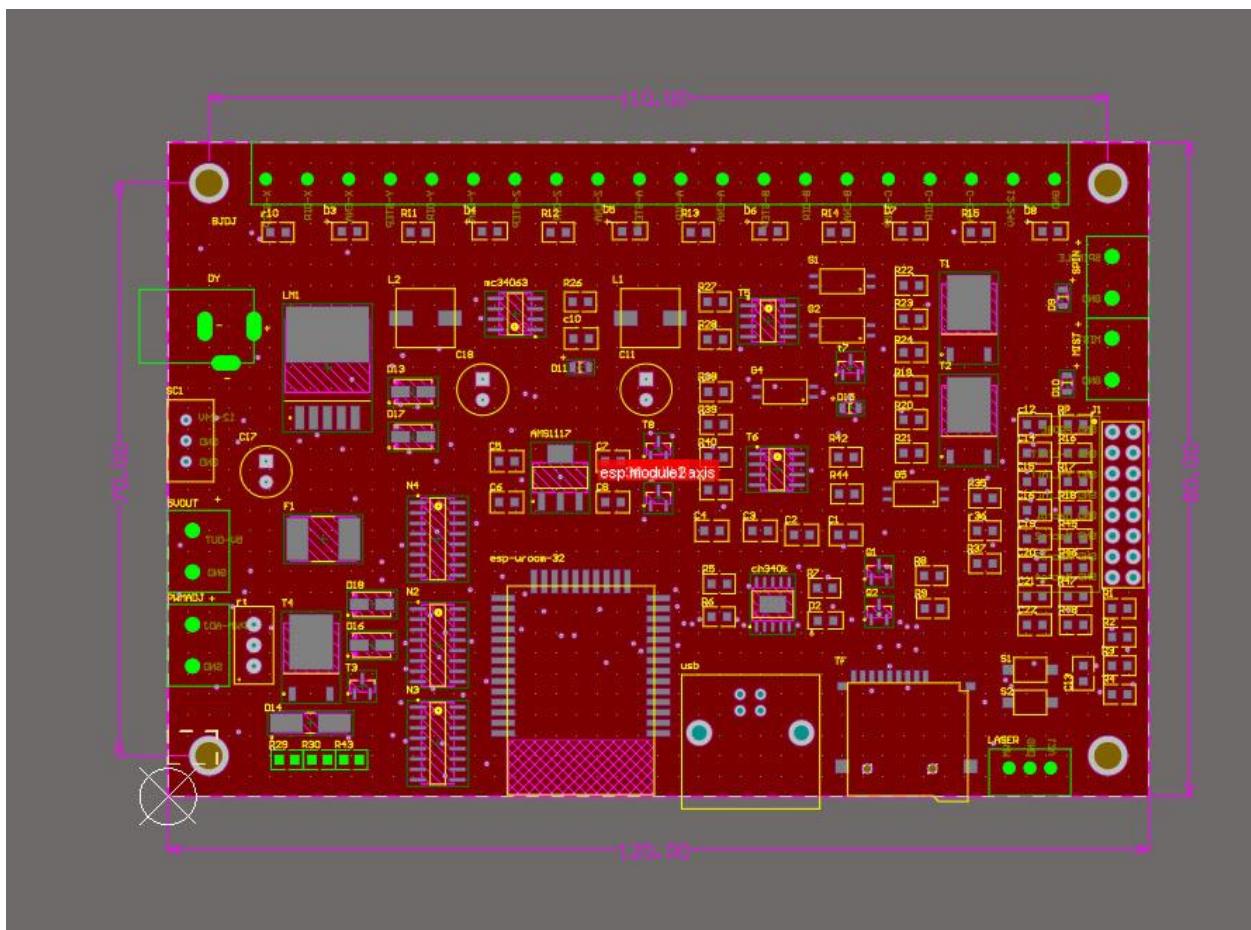
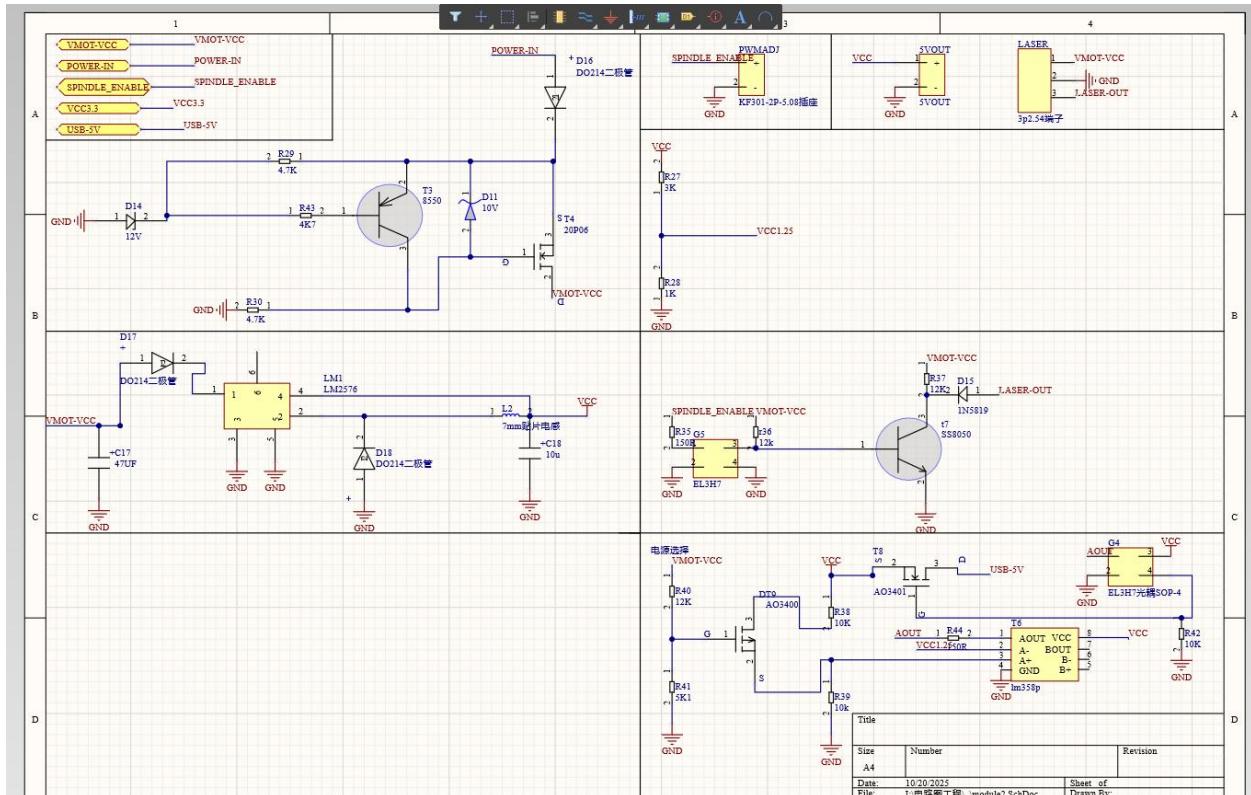
Features

- ❖ Adopting dual-core ESP32 32bits high-speed processor.
- ❖ Pre-installed FluidNC firmware,
compatible with CNC3D COMMANDER,Candle,Bcnc software...
- ❖ Support six stepper drivers. X,Y,Z,A,B,C axis.
- ❖ Support Homing,software/hardware endstop,Z probe.
- ❖ Support hotspot,Wifi to control.
- ❖ Support 3pin laser. 0-10V PWM output.
- ❖ Support 12-24V DC

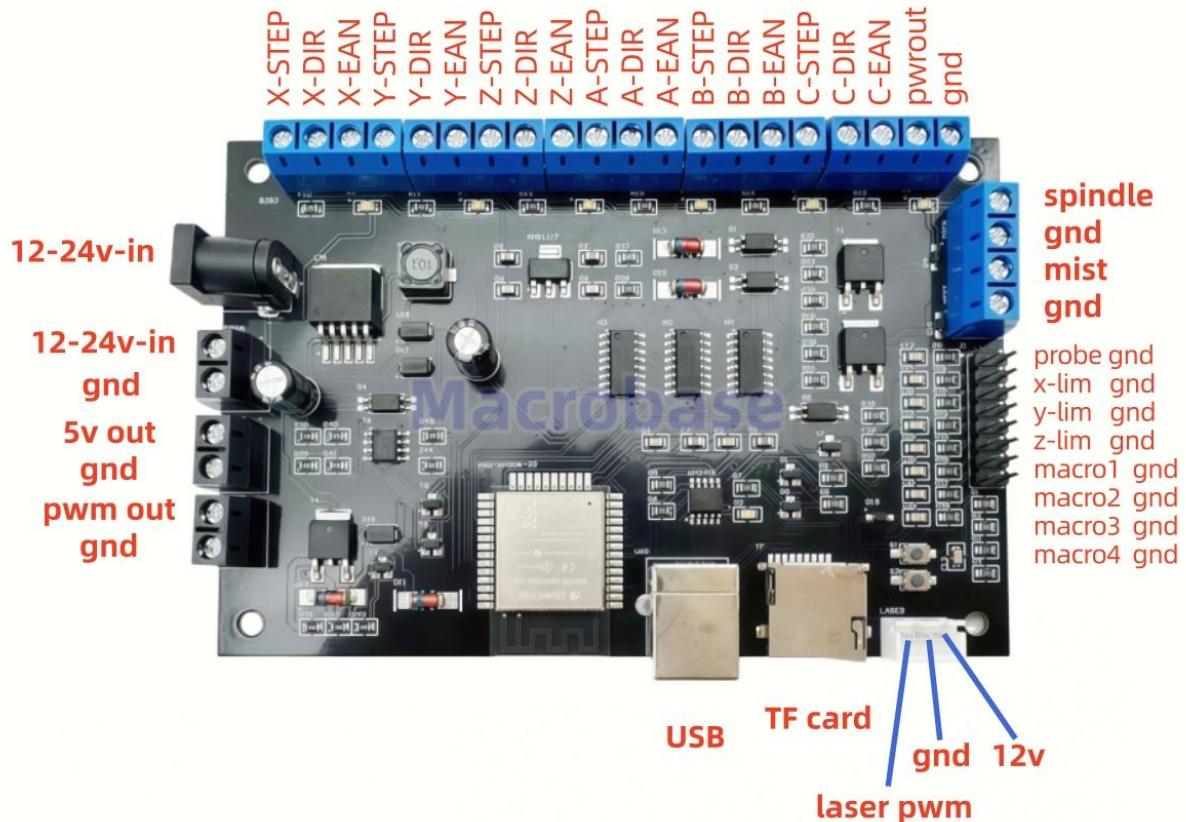
Auto-cut off power when voltage exceeding 30V.

Automatically select external power supply as the main control input power,and prevent reverse power transmission,protect USB port.

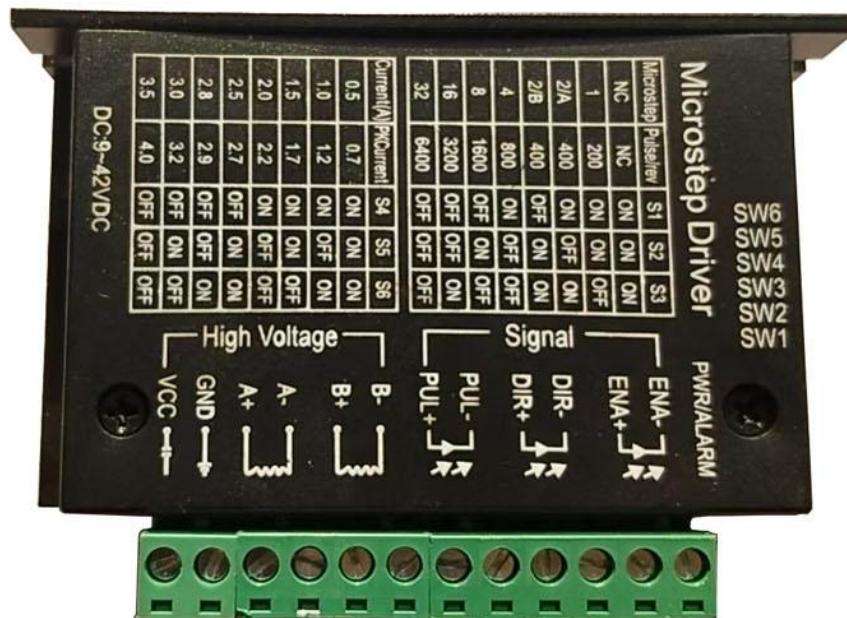




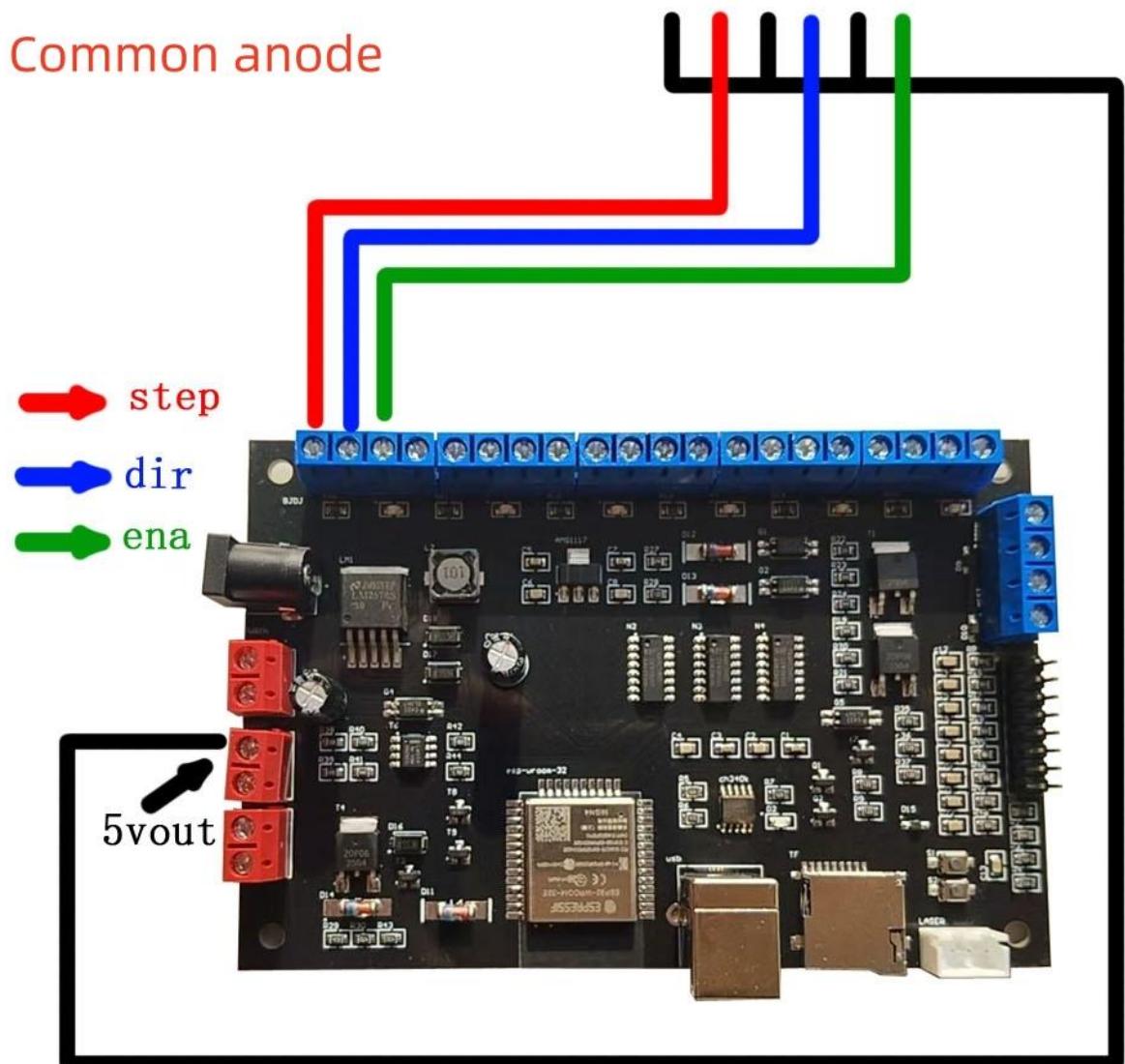
Wiring

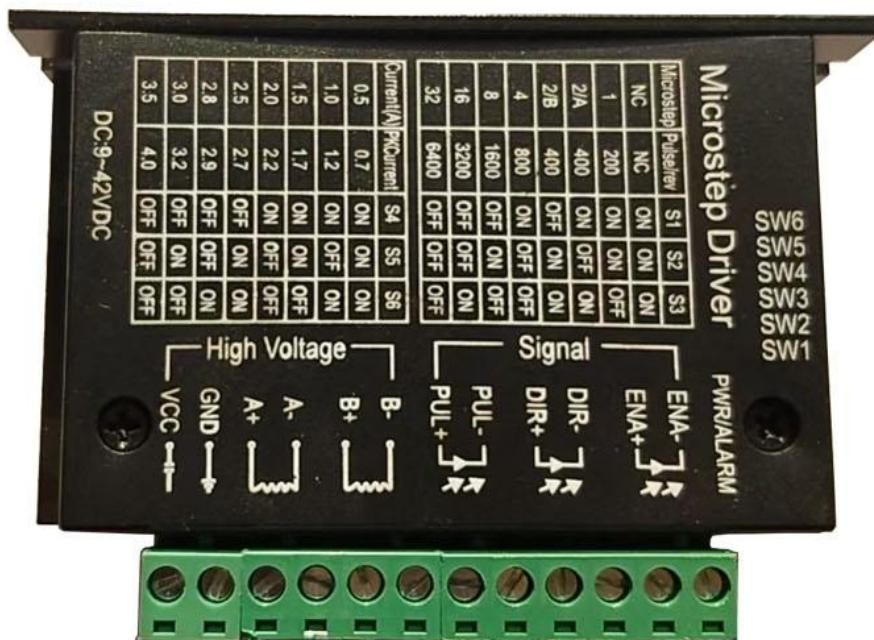


PROBE	Z-probe
X-LIM	X limit,NO
Y-LIM	Y limit,NO
Z-LIM	Z limit,NO
GND	XYZ axis com,probe
PWM-OUT	PWM output
GND	PWM ground
PWM-ADJ	PWM adjustable
GND	All drivers PUL-,EAN-,DIR-
X-STEP	X-PUL+
X-EAN	X-ENA+
X-DIR	X-DIR+

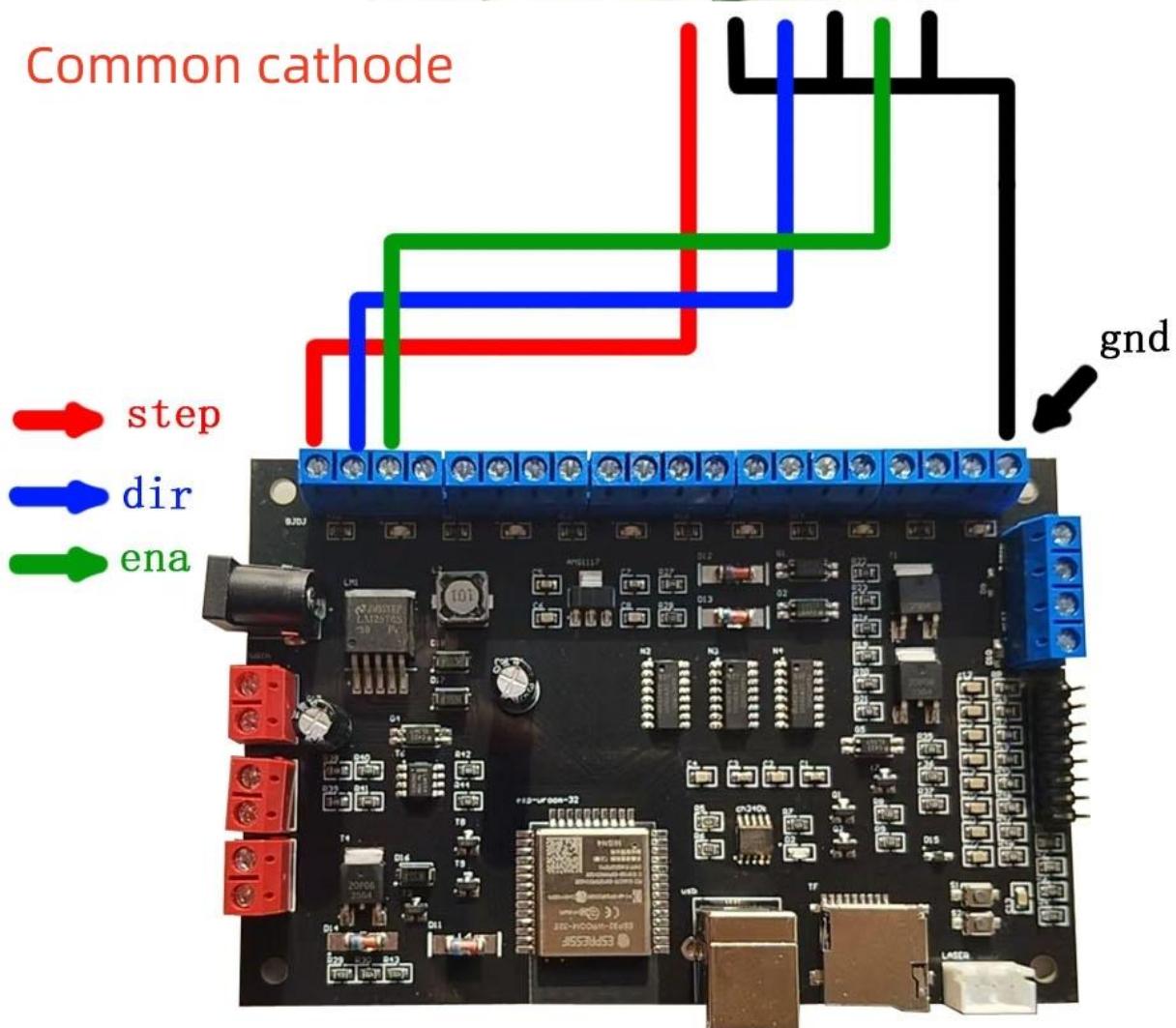


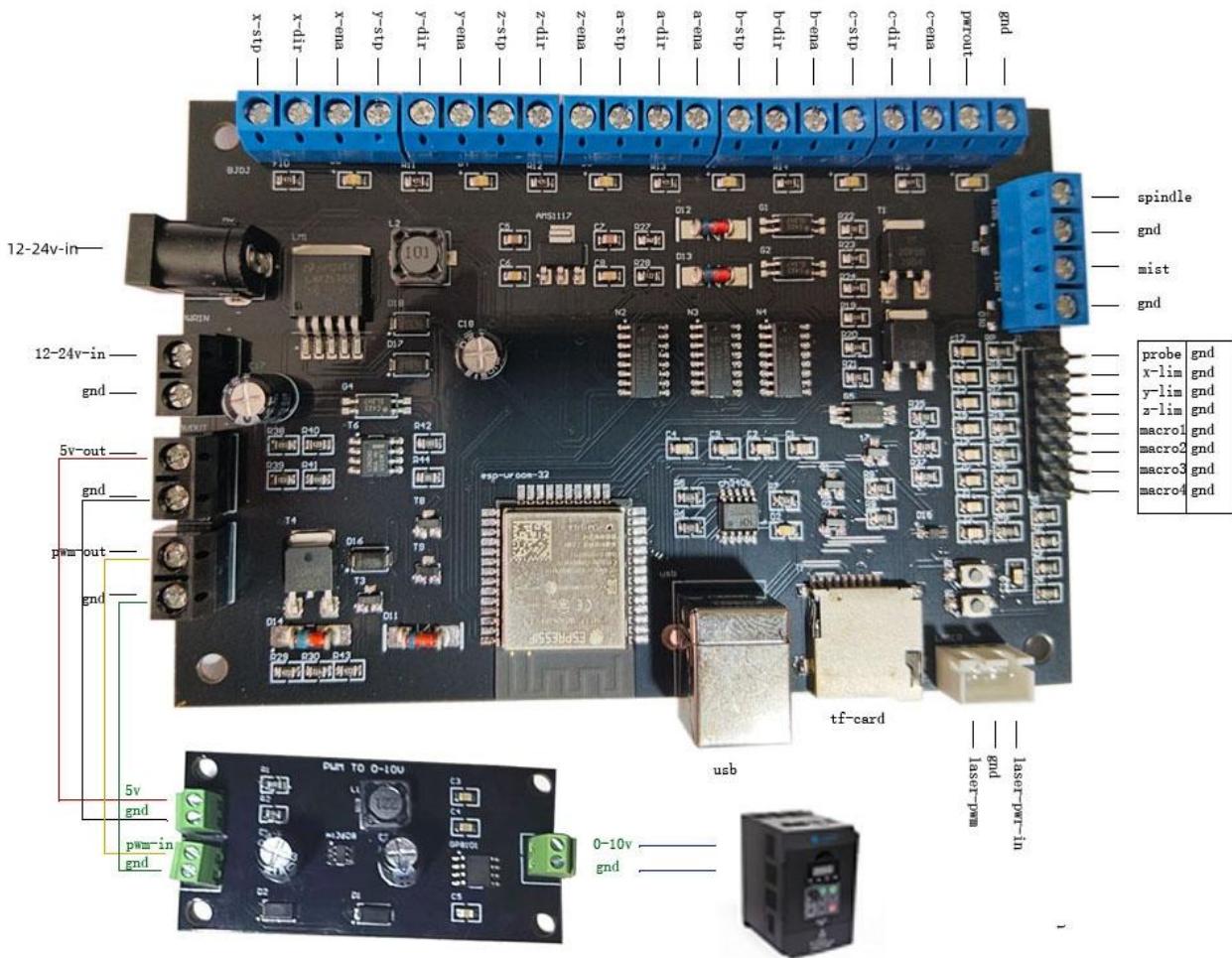
Common anode





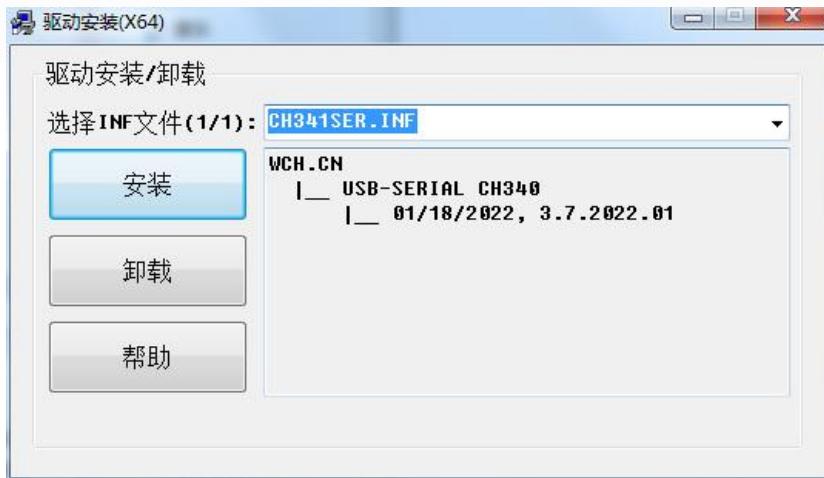
Common cathode





Install ch340 USB Driver

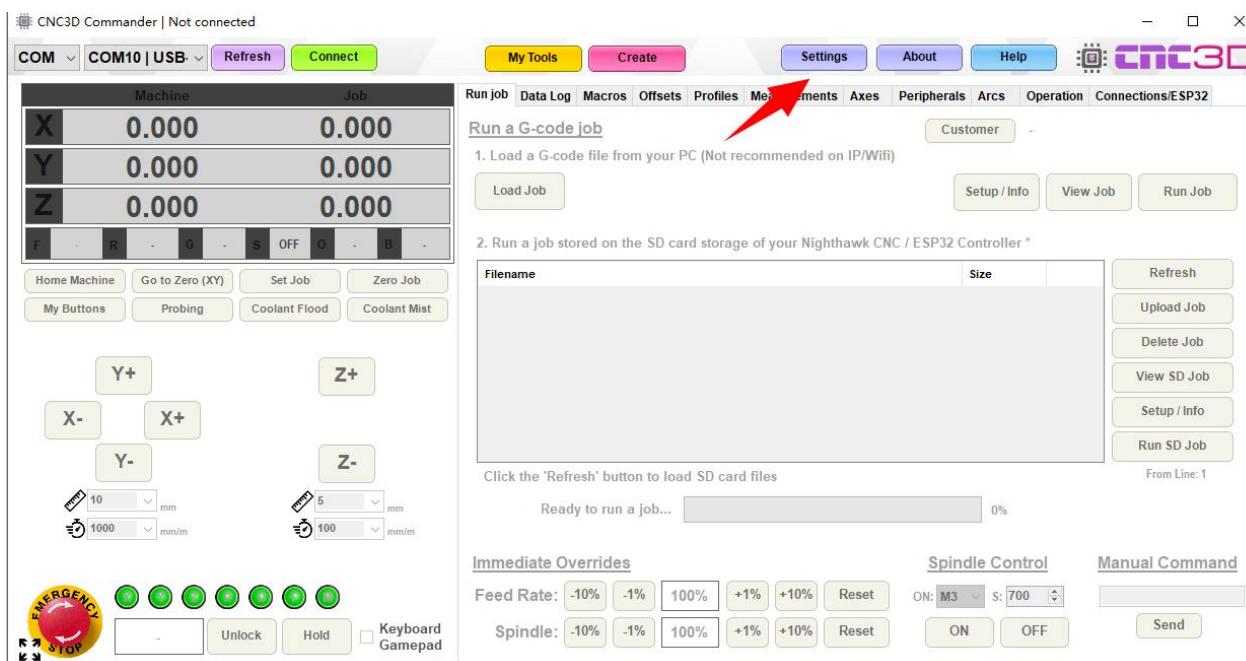
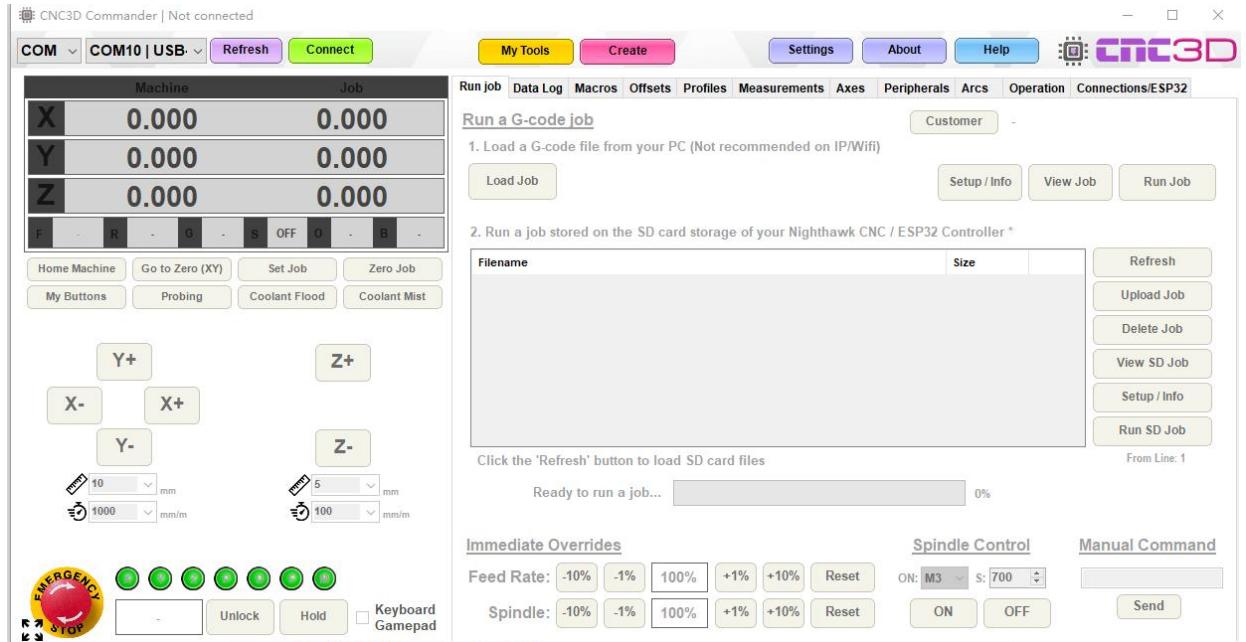
arduinoIDE	2023/5/6 星期六 ...	文件夹	
ch340驱动	2023/5/6 星期六 ...	文件夹	
cp2102驱动	2023/5/6 星期六 ...	文件夹	
CH341SER.EXE	2022/10/23 星期...	应用程序	632 KB
Grbl_Esp32-6.rar	2023/5/6 星期六 ...	WinRAR 压缩文件	1,103 KB
grbl设置.rar	2022/11/3 星期...	WinRAR 压缩文件	114 KB
libraries.zip	2022/11/5 星期...	WinRAR ZIP 压缩...	61,212 KB
精雕5.5破解版.rar	2022/10/6 星期...	WinRAR 压缩文件	29,845 KB
精雕教程.txt	2023/5/6 星期六 ...	文本文档	1 KB
诺诚4.0.rar	2022/10/6 星期...	WinRAR 压缩文件	8,724 KB
上位机软件.rar	2022/11/2 星期...	WinRAR 压缩文件	110,909 KB

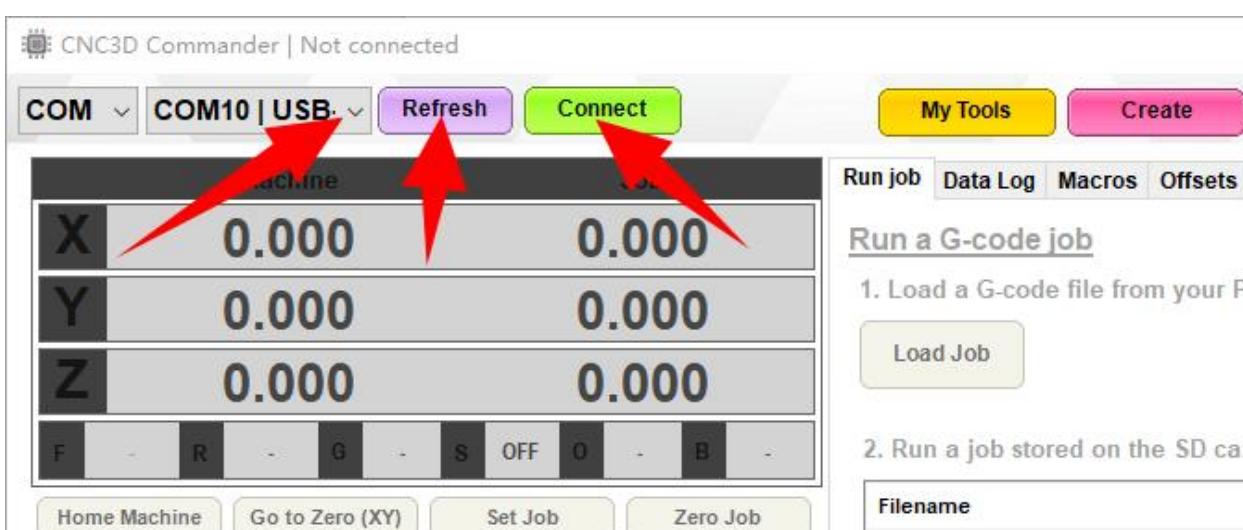
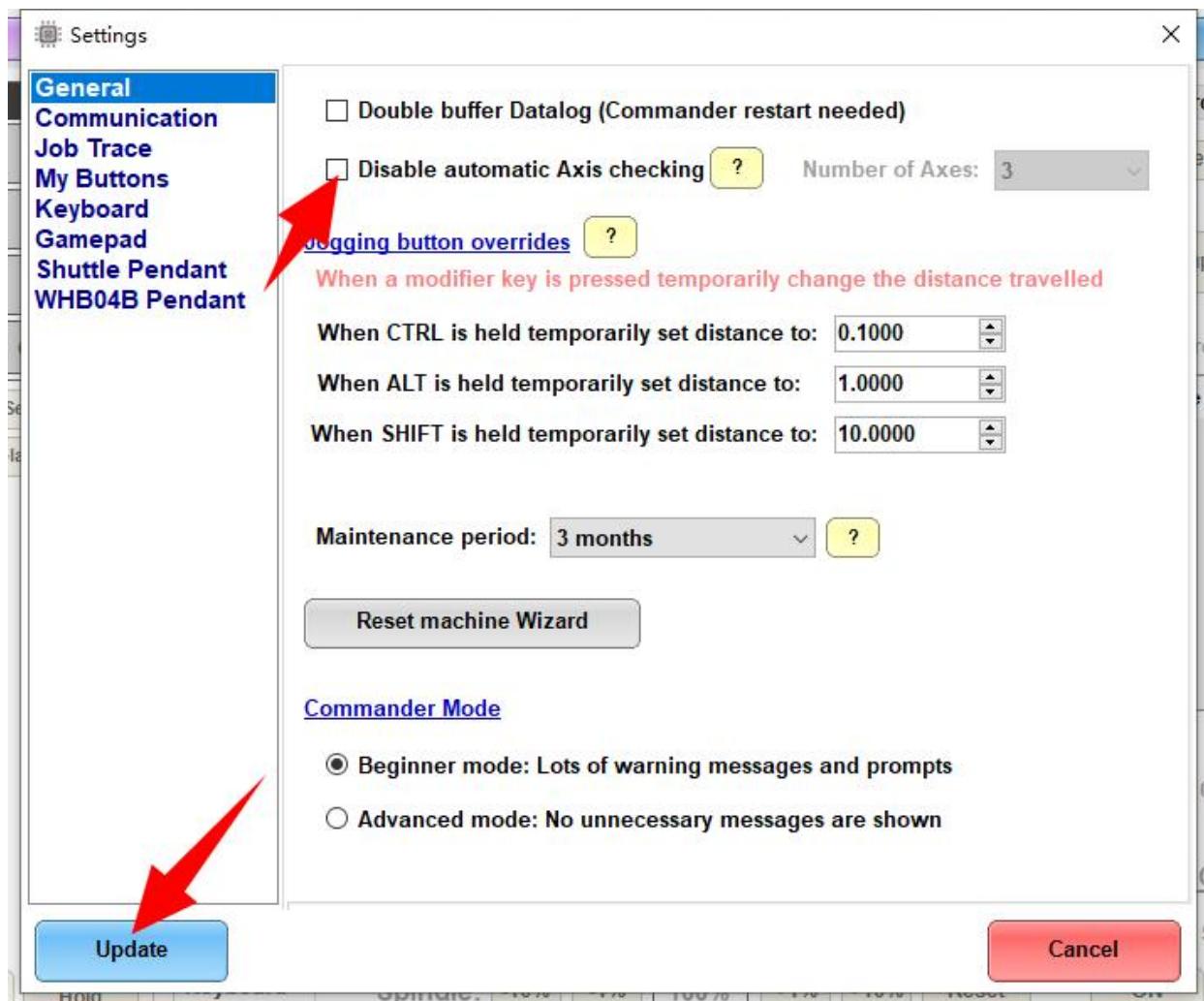


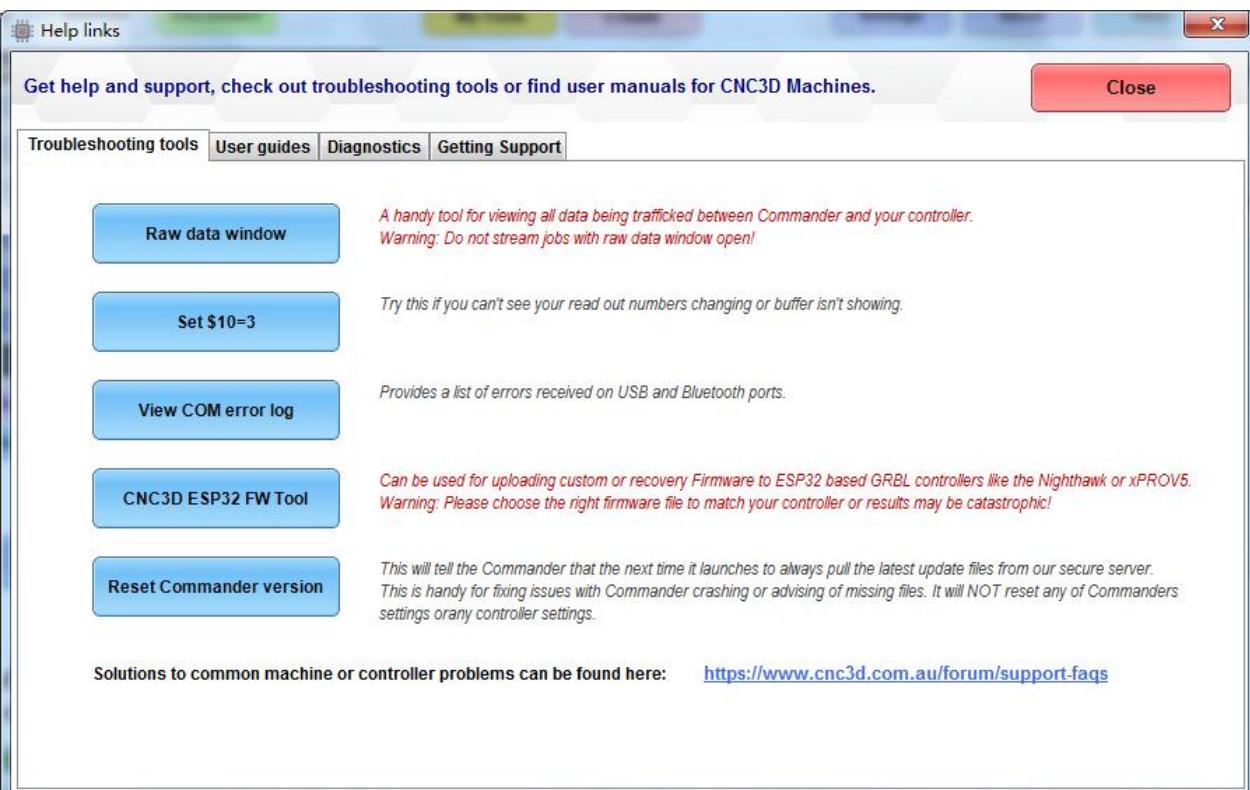
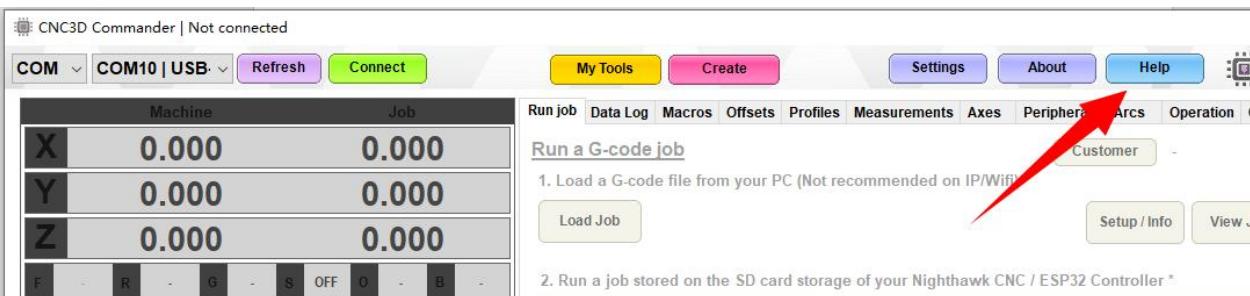
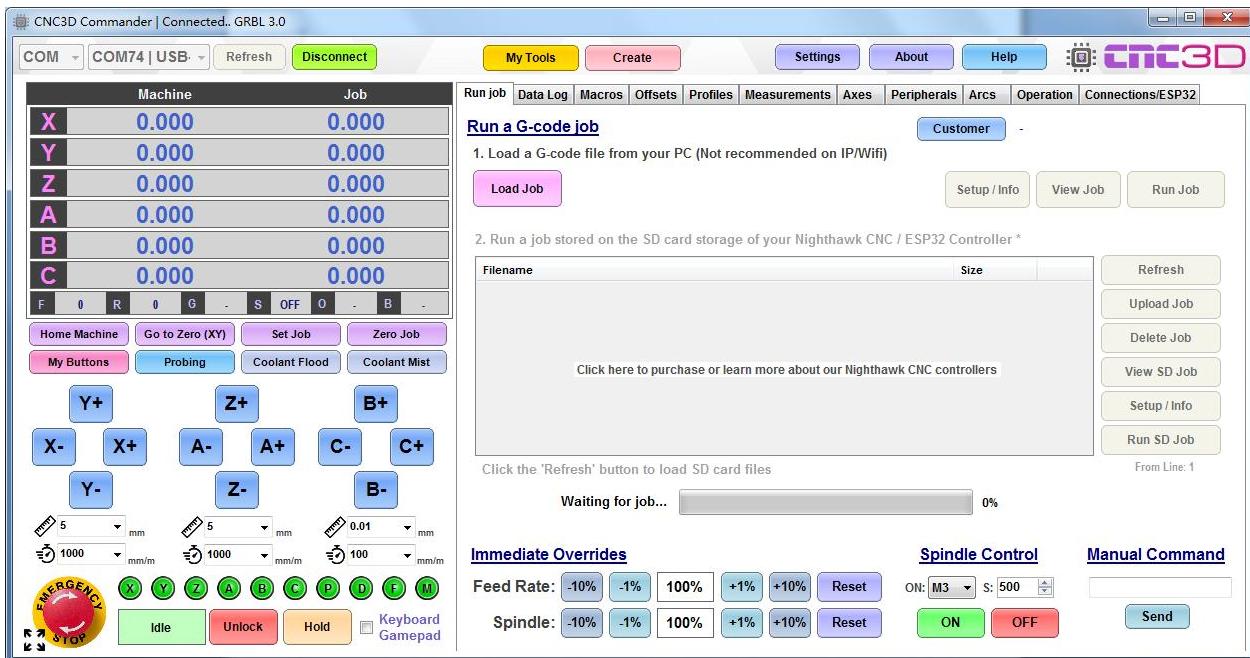
See CH340K, successfully install.

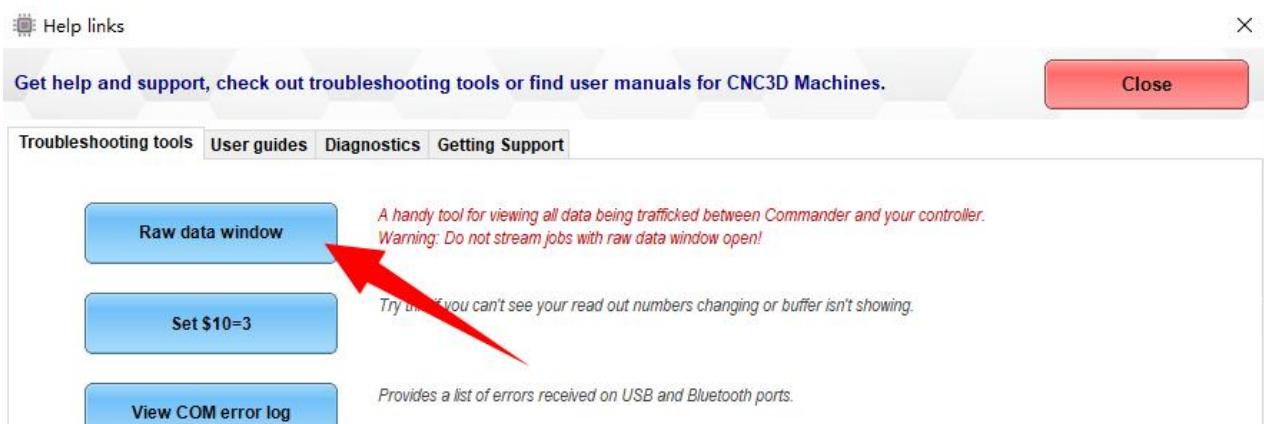
Software

CNC3d Commander







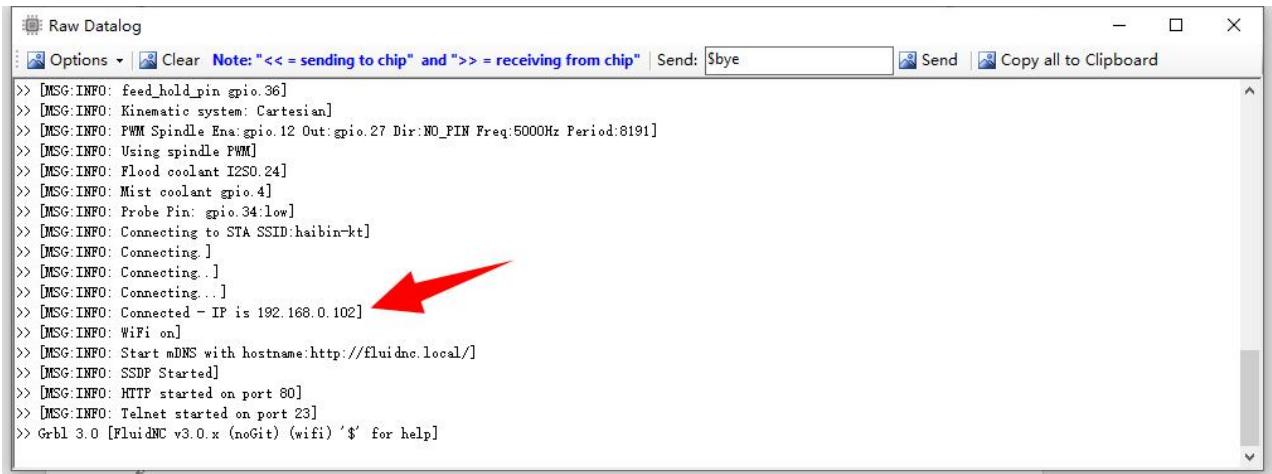


\$sta/ssid=Your wifi account

\$sta/password=Your wifi password

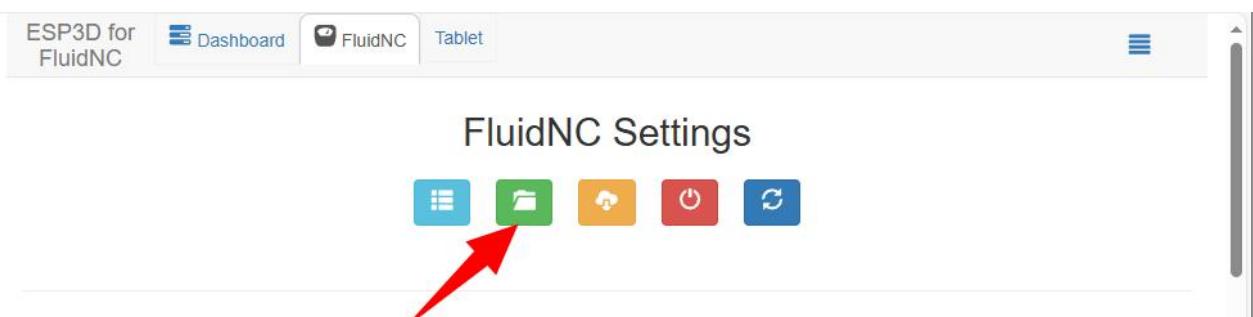
\$bye





```
>> [MSG:INFO: feed_hold_pin gpio.36]
>> [MSG:INFO: Kinematic system: Cartesian]
>> [MSG:INFO: PWM Spindle Ena:gpio.12 Out:gpio.27 Dir:NO_PIN Freq:5000Hz Period:8191]
>> [MSG:INFO: Using spindle PWM]
>> [MSG:INFO: Flood coolant I2SO.24]
>> [MSG:INFO: Mist coolant gpio.4]
>> [MSG:INFO: Probe Pin: gpio.34:low]
>> [MSG:INFO: Connecting to STA SSID:haiabin-kt]
>> [MSG:INFO: Connecting...]
>> [MSG:INFO: Connecting...]
>> [MSG:INFO: Connected - IP is 192.168.0.102] ← Red arrow here
>> [MSG:INFO: WiFi on]
>> [MSG:INFO: Start mDNS with hostname:http://fluidnc.local/]
>> [MSG:INFO: SSDP Started]
>> [MSG:INFO: HTTP started on port 80]
>> [MSG:INFO: Telnet started on port 23]
>> Grbl 3.0 [FluidNC v3.0.x (noGit) (wifi) '$' for help]
```

Open browser and enter above IP address to access the control card.



Download config file and open.

FluidNC Local Filesystem

Upload files No file chosen

Type	Name	Size	Actions
config.yaml	config.yaml	116668	  
index.html.gz	index.html.gz	116668	  

Total: 875.31 KB | Used: 120.60 KB  13%

board: 6 Pack
name: 6 Pack StepStick XYZABC
stepping:
 engine: I2S_STREAM
 idle_ms: 250
 pulse_us: 4
 dir_delay_us: 6
 disable_delay_us: 0
axes:
 shared_stepper_disable_pin: NO_PIN
 x:
 steps_mm: 800.000
 max_rate_mm_per_min: 5000.000
 acceleration_mm_per_sec2: 100.000
 max_travel_mm: 300.000
 soft_limits: false
 homing:
 cycle: 1
 positive_direction: false
 mpos_mm: 0.000
 feed_mm_per_min: 100.000
 seek_mm_per_min: 200.000
 settle_ms: 500
 seek_scaler: 1.100
 feed_scaler: 1.100
motor0:
 limit_neg_pin: NO_PIN

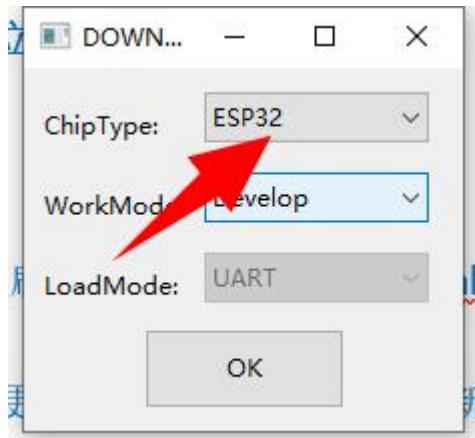
Close **↻**

Firmware Update

This board pre-installed FluidNC firmware, also uploaded yaml and index files.

Latest FluidNC: <https://github.com/bdring/FluidNC>

Open flash_download_tool3.9 software.



Upload file

First line

[grbl_controller_esp32.ino.bin](#)

2th

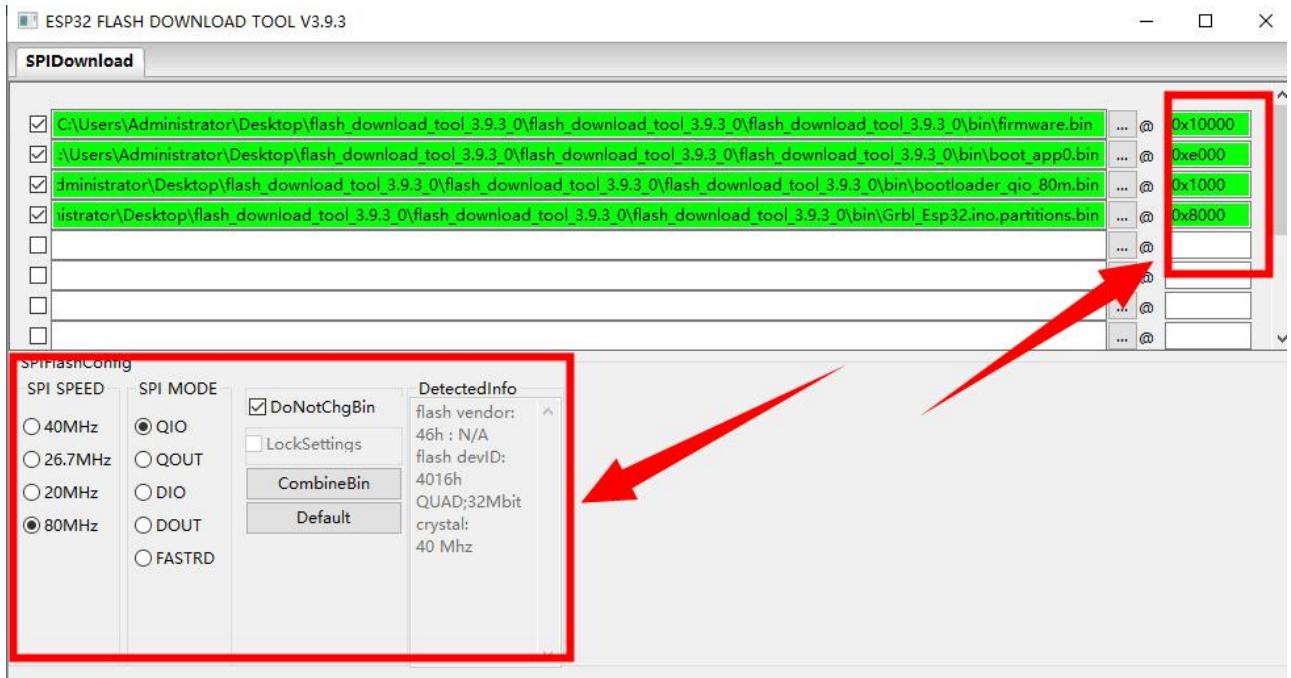
[boot_app0.bin](#)

3th

[bootloader_qio_80m.bin](#)

4th

[Grbl_Esp32.ino.partitions.bin](#)

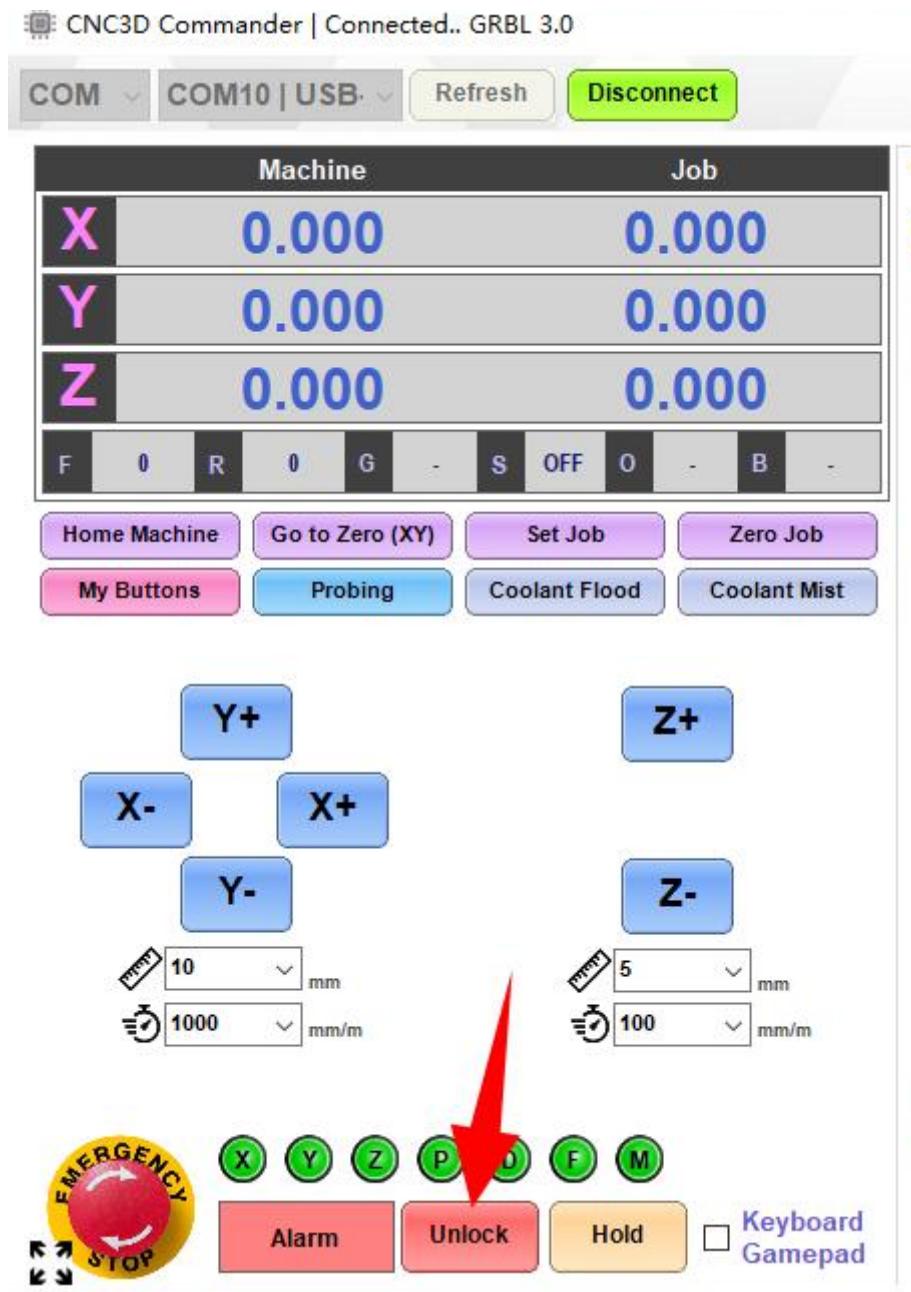


Select COM,then Erase previous files.



After successfully download, configure wifi as previous tell.

Also, need to upload Yaml and Index file when finish wifi configuration.



Unlock and upload config.yaml and index file.

Flash Filesystem

选择文件 未选择文件 Upload

Refresh /

Type Name Size Time

Status: Ok | Total space: 875.31 KB | Used space: 1 B | Occupation: 0.1%

名称	修改日期	类型	大小
config.yaml	2024/11/6/周三 9:29	YAML 文件	6 KB
index.html	2024/11/6/周三 9:29	WinRAR 压缩文件	114 KB

Go to ESP3D interface.

The screenshot shows the FluidNC v3.0.x (noGit) web interface. At the top, there are links for 'Firmware', 'Interface', and 'Help'. On the right, it says 'v FluidNC v3.0.x (noGit)'. Below this, there's a large button labeled 'Go to ESP3D interface' with a red arrow pointing to it. Underneath, there's a section titled 'Flash Filesystem' with a file upload form. The table below shows two files: 'config.yaml' and 'index.html.gz'. At the bottom, it displays system status: 'Status: Ok | Total space: 875.31 KB | Used space: 120.35 KB | Occupation: 13%'. The IP address '192.168.0.102' is at the bottom left.

Type	Name	Size	Time
<input type="checkbox"/>	config.yaml	5203	
<input type="checkbox"/>	index.html.gz	116668	

Status: Ok | Total space: 875.31 KB | Used space: 120.35 KB | Occupation: 13%

192.168.0.102

Re-start CNC3d commander, will see 6 axis.

Firmware flash complete.

More refer to

<http://wiki.fluidnc.com/en/config/overview>