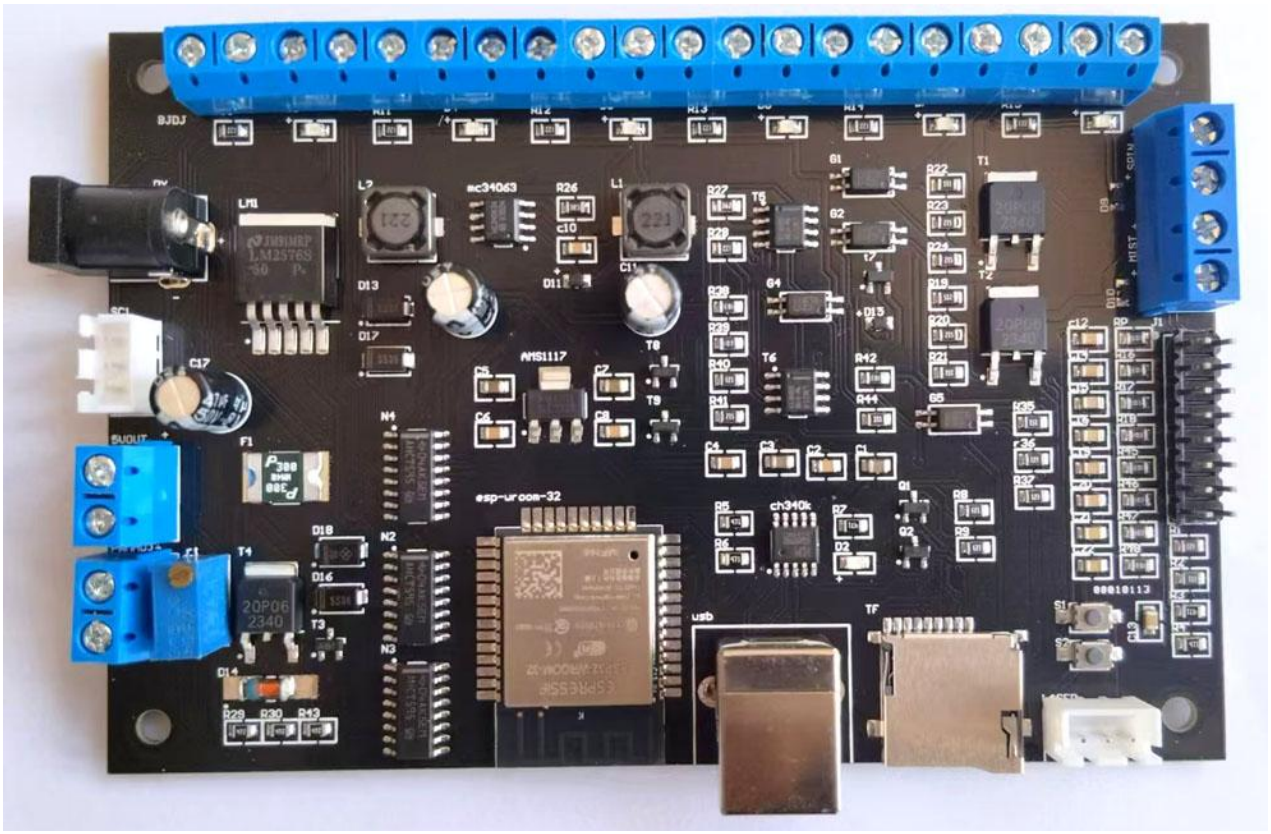
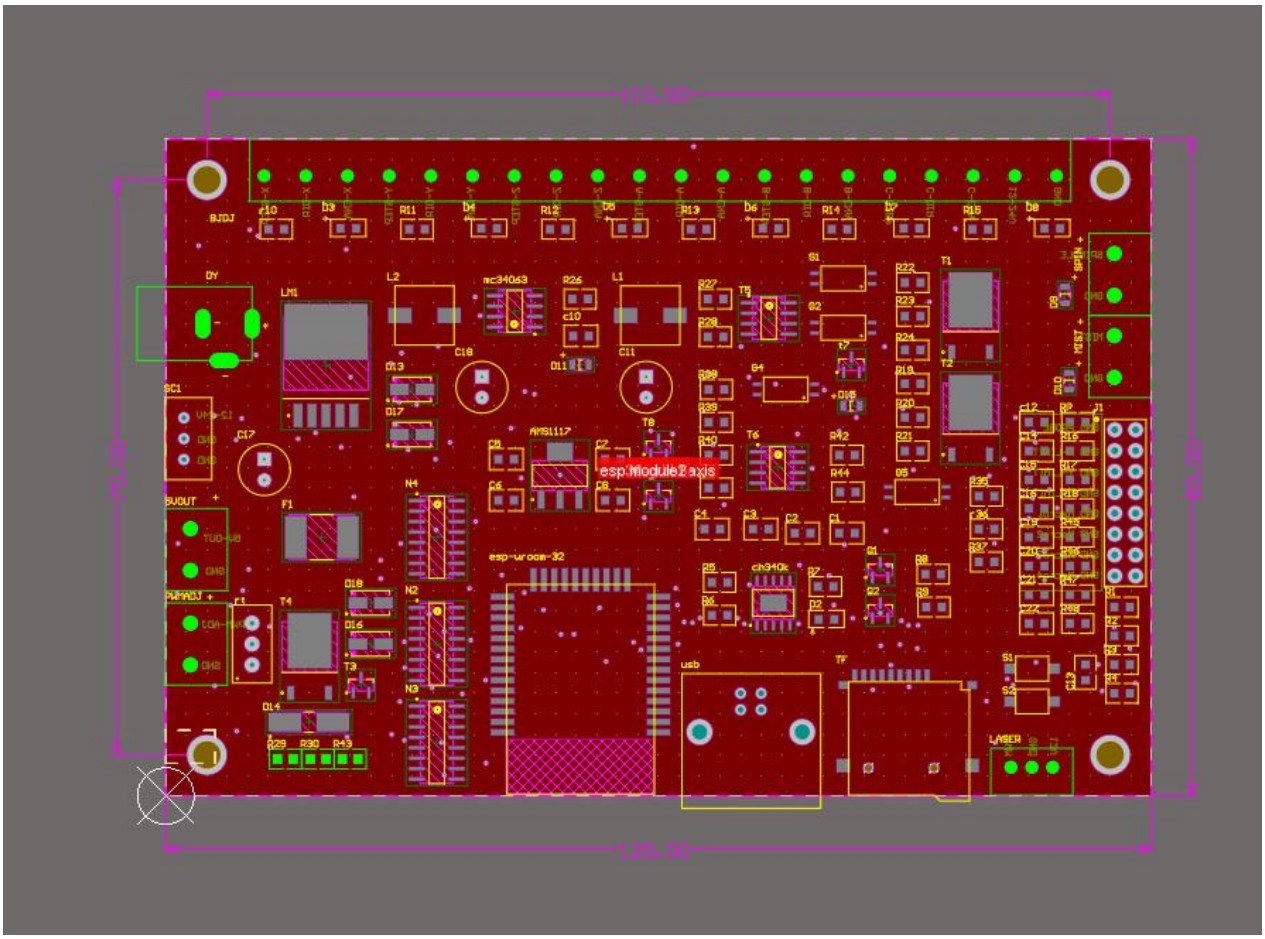

BJDJ
LM1
mc34063
AMS1117
esp-wroom-32
ch340k
usb
TF
LASER


110.0
120.0
esp-module2 axis

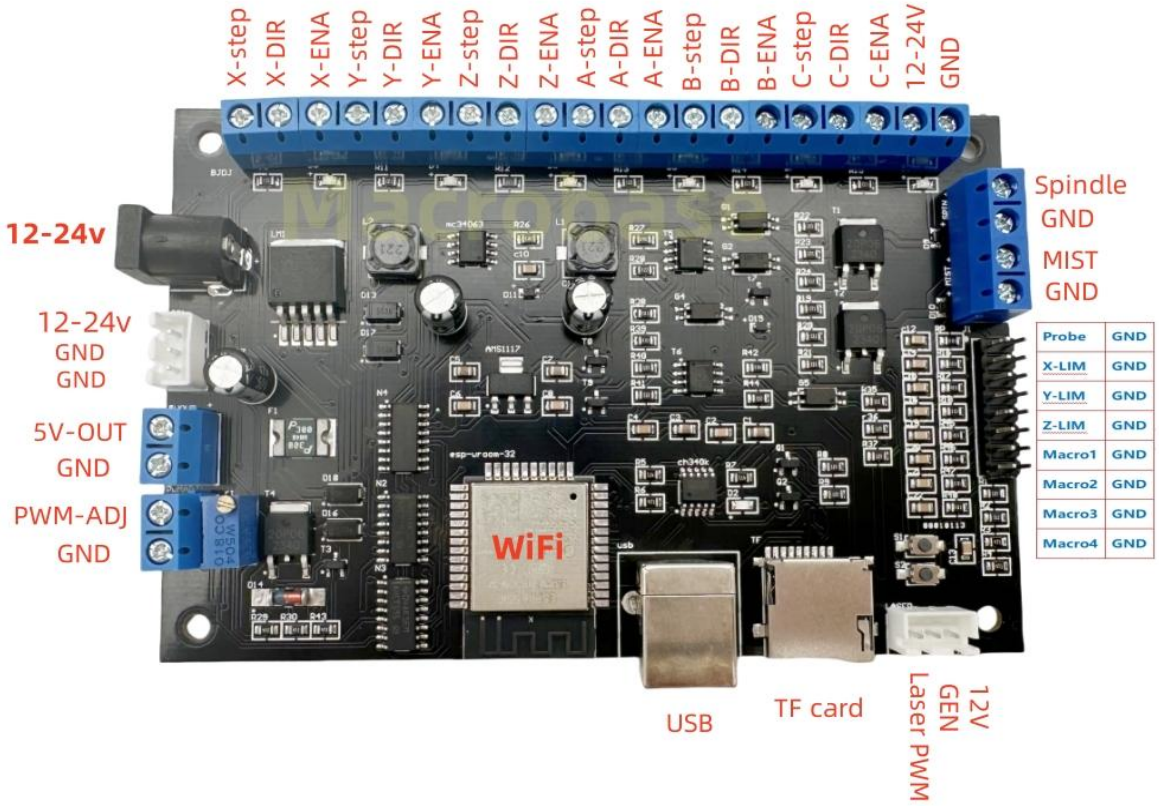
Features

- Adopting dual-core ESP32 16-bit high-speed processor
- Compatible with GRBL software,Such as Candle,Bcnc,CNC3D COMMANDER...
- Support six stepper drivers
- Support Homing,software/hardware endstop,Z probe.
- Support hotspot,Wifi to control
- Support 3pin laser.Adjustable voltage 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,Always on

Y-LIM Y limit,Always on

Z-LIM Z limit,Always on

GND XYZ axis com,probe

PWM-OUT PWM output

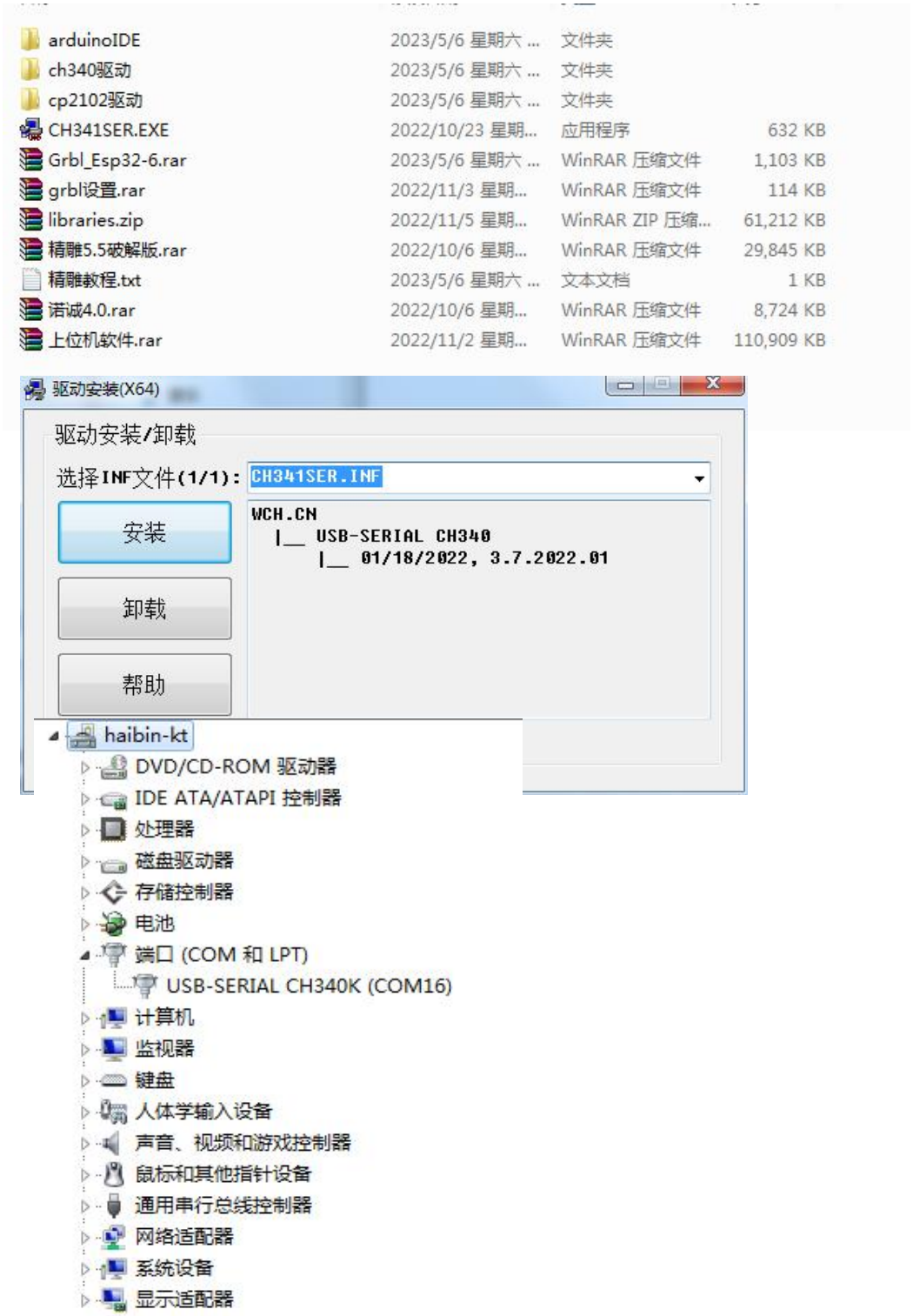
GND PWM ground

PWM-ADJ PWM adjustable

GND All drivers PUL-,EAN-,DIR-

X-STEP X-PUL+ X-EAN X-ENA+ X-DIR X-DIR+

Install ch340 USB Driver



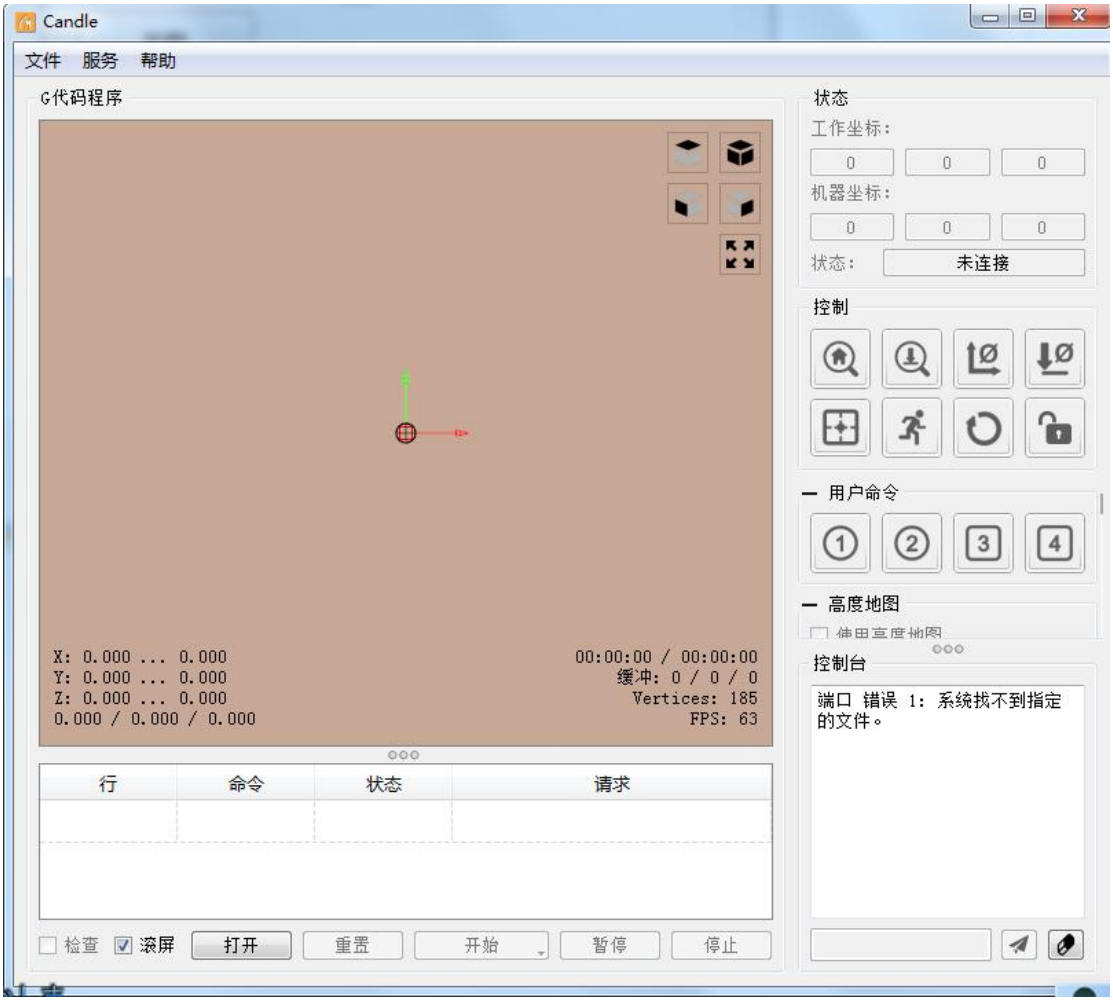
See CH340K,successfully install.

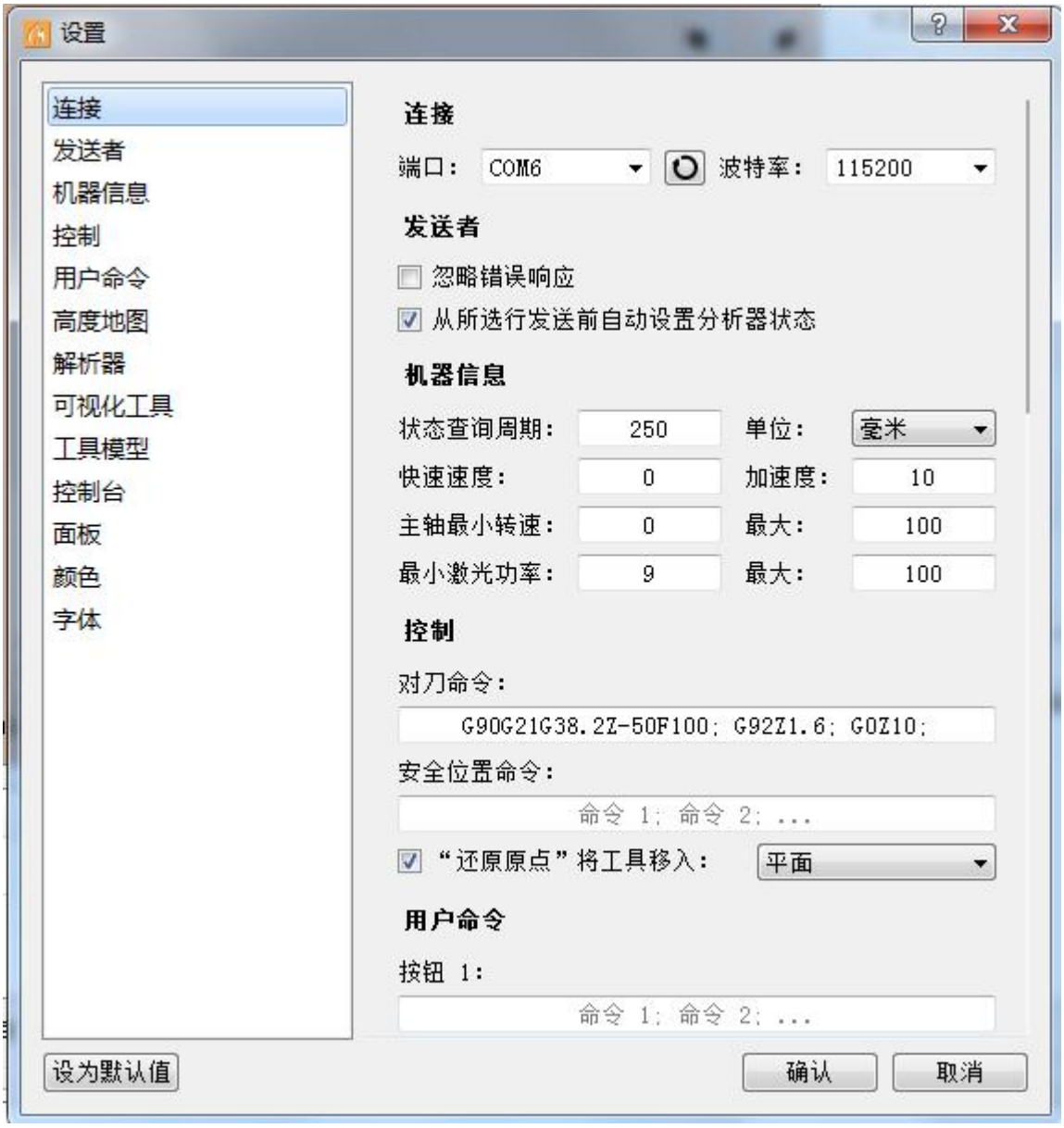
Software

Candle,CNC3dCommander and Bcnc.

1.Candle

Unzip candle and open candle.exe




设置
连接
发送者
机器信息
控制
用户命令
高度地图
解析器
可视化工具
工具模型
控制台
面板
颜色
字体
连接
端口：
COM6
波特率：
115200
发送者
忽略错误响应
从所选行发送前自动设置分析器状态
机器信息
状态查询周期：
250
单位：
毫米
快速速度：
0
加速度：
10
主轴最小转速：
0
最大：
100
最小激光功率：
9
最大：
100
控制
对刀命令：
G90G21G38.2Z-50F100; G92Z1.6; G0Z10;
安全位置命令：
命令 1; 命令 2; ...
“还原原点”将工具移入：
平面
用户命令
按钮 1：
命令 1; 命令 2; ...
设为默认值
确认
取消


状态
工作坐标：
0.000
0.000
0.000
机器坐标：
0.000
0.000
0.000
状态：
空闲

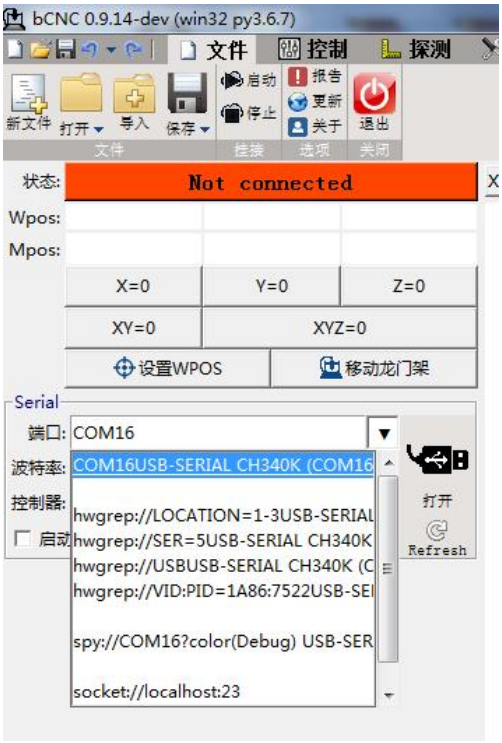
2.BCNC

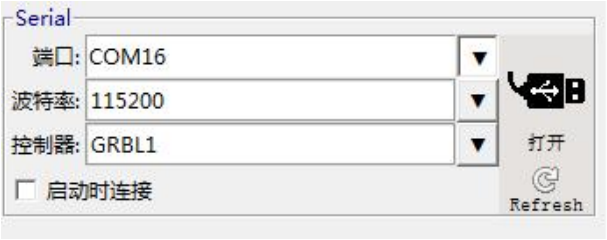
Plug control board to PC via USB cable,and enter bcnc.exe

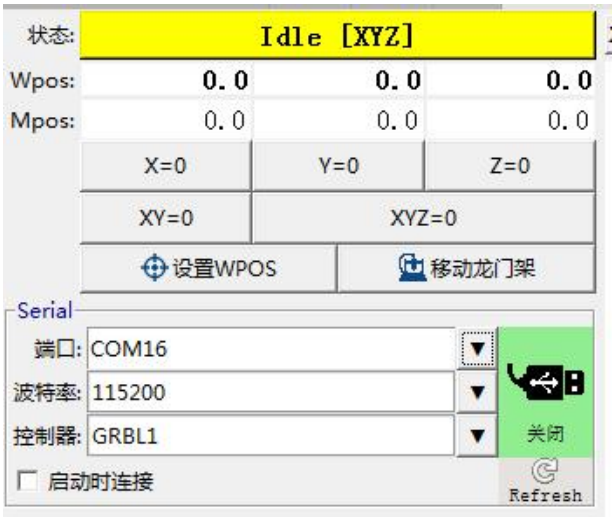
Click CAM,select language.

Enable 6 axis display,then reboot software.

Click file,select COM and open it.

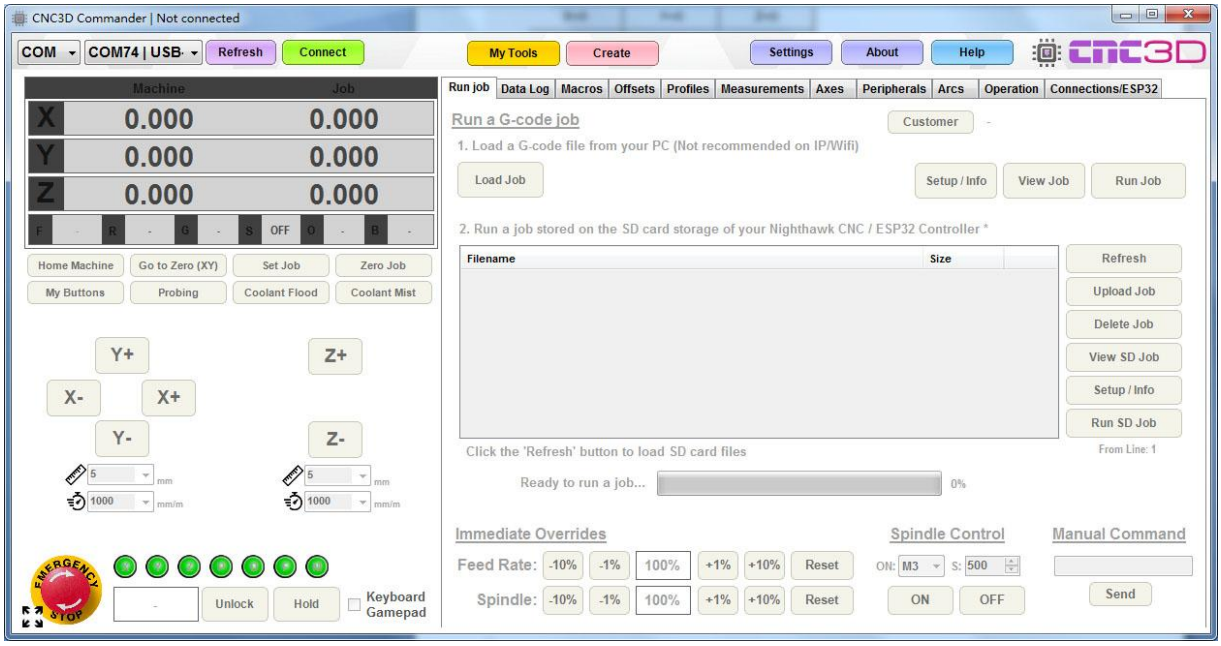




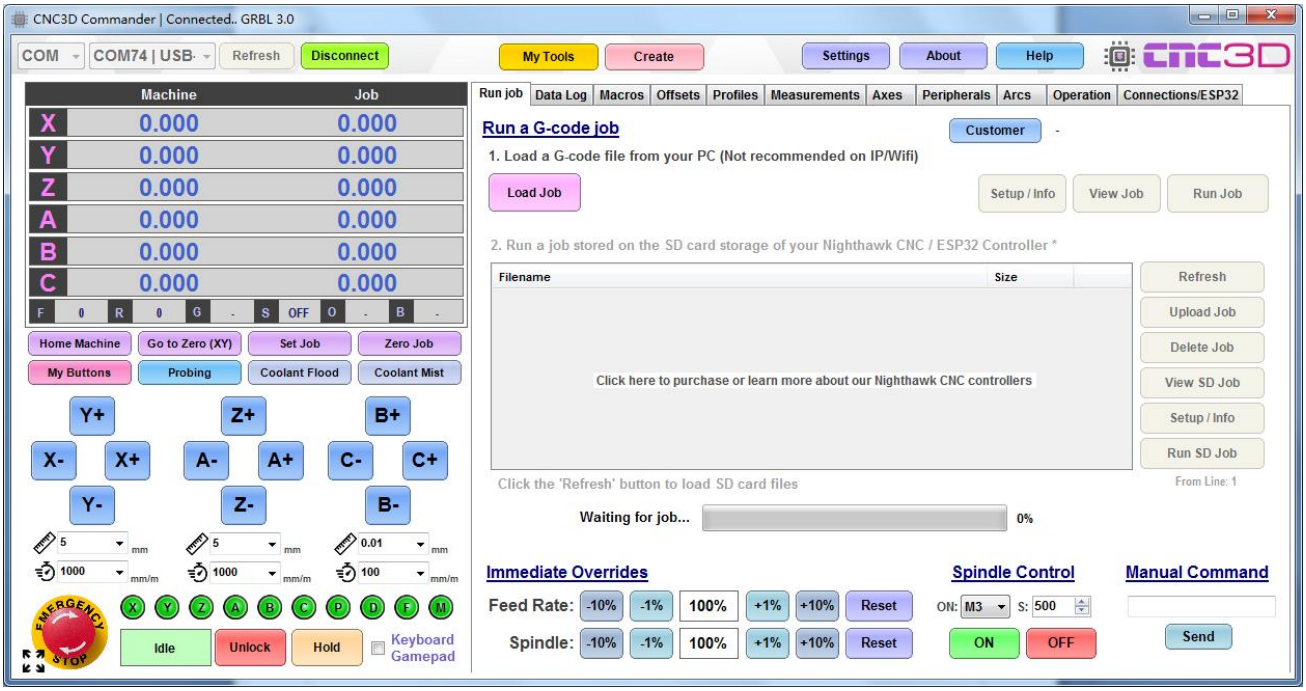


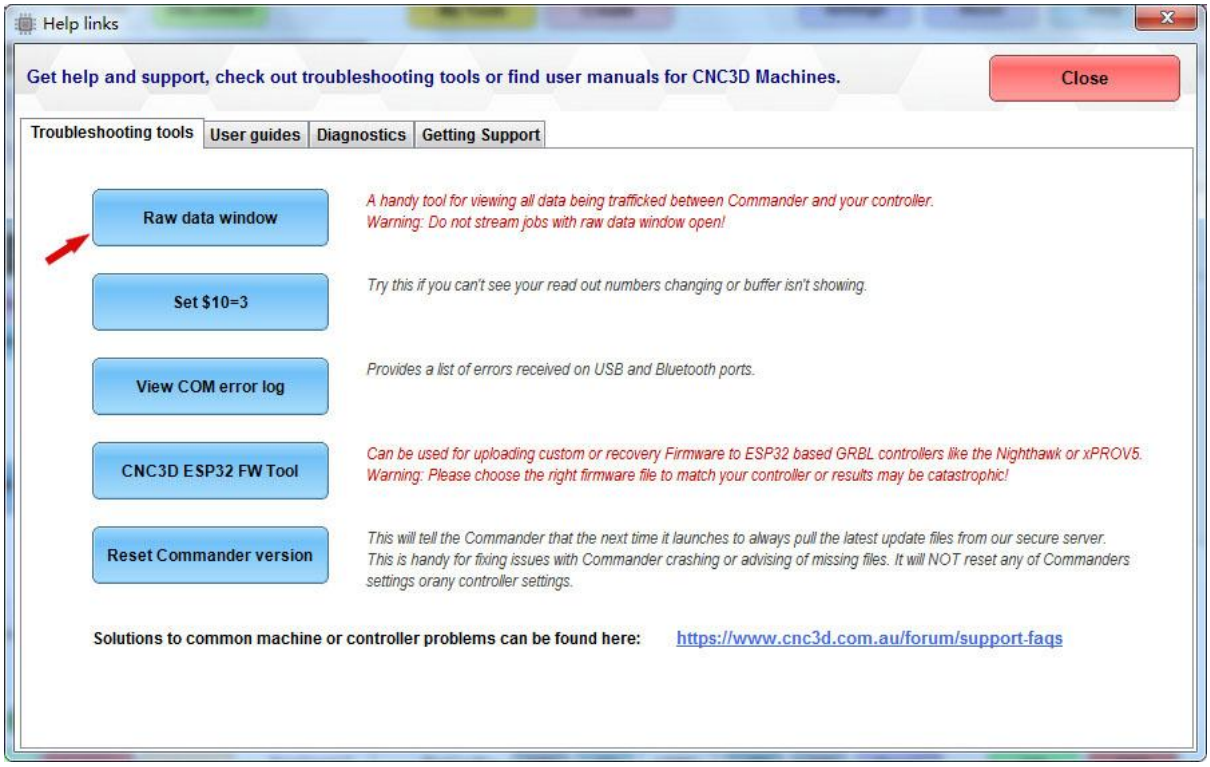
3.CNC3d Commander

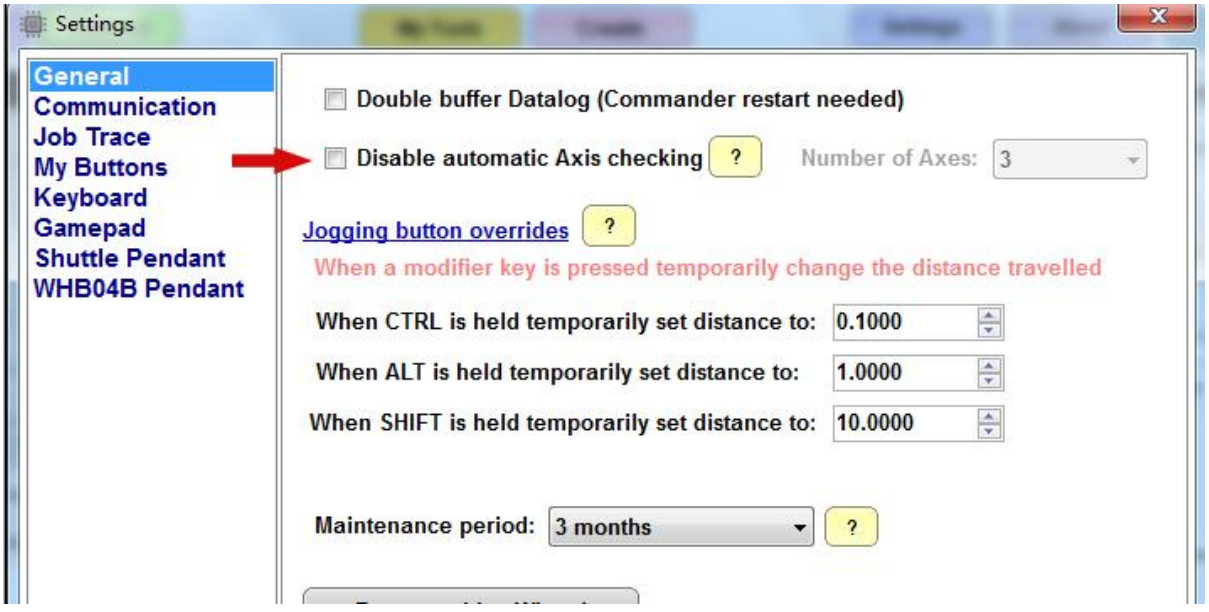
Open CNC3dcommander as below



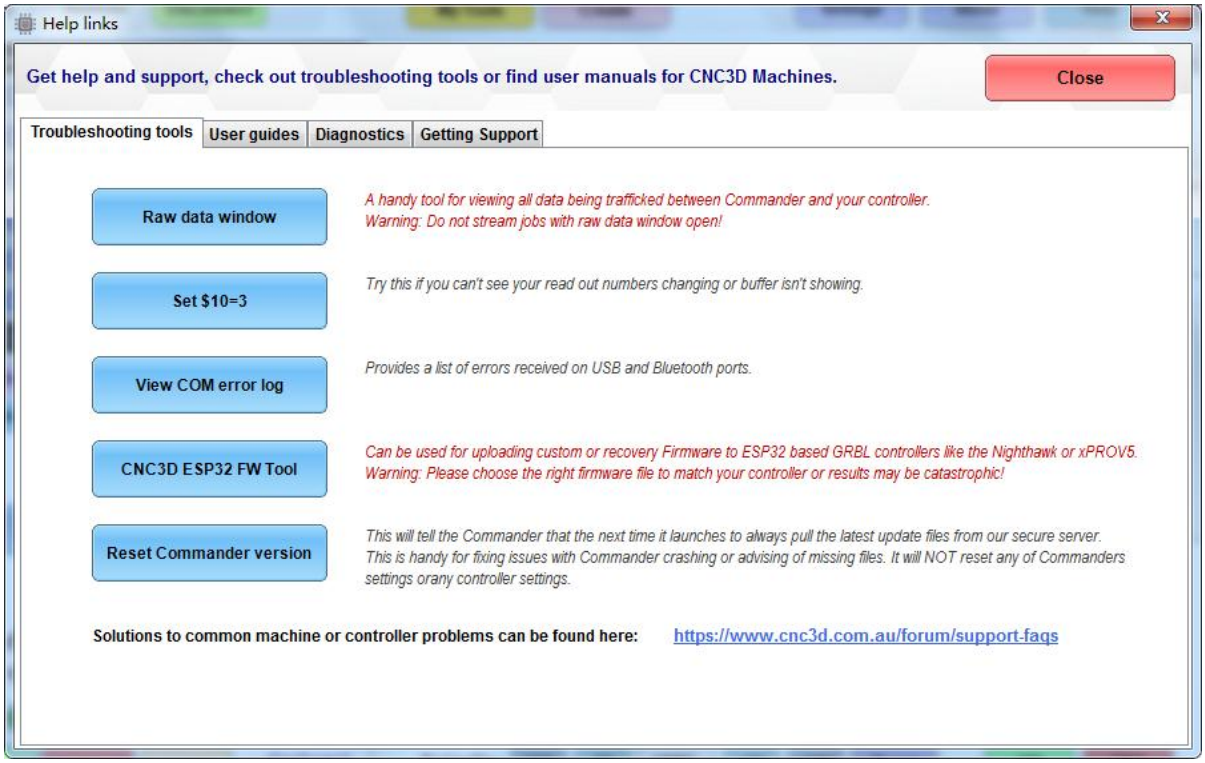
Connect control board and reflash.



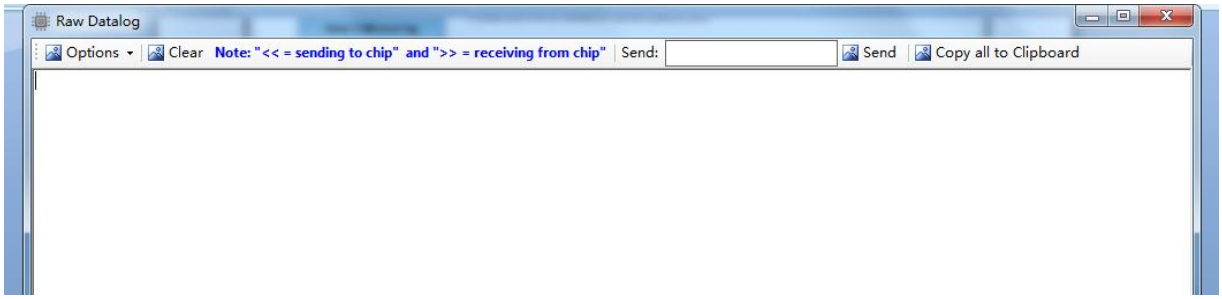

Help links
Get help and support, check out troubleshooting tools or find user manuals for CNC3D Machines.
Close
Troubleshooting tools
User guides
Diagnostics
Getting Support
Raw data window
A handy tool for viewing all data being trafficked between Commander and your controller.
Warning: Do not stream jobs with raw data window open!
Set $10=3
Try this if you can't see your read out numbers changing or buffer isn't showing.
View COM error log
Provides a list of errors received on USB and Bluetooth ports.
CNC3D ESP32 FW Tool
Can be used for uploading custom or recovery Firmware to ESP32 based GRBL controllers like the Nighthawk or xPROV5.
Warning: Please choose the right firmware file to match your controller or results may be catastrophic!
Reset Commander version
This will tell the Commander that the next time it launches to always pull the latest update files from our secure server.
This is handy for fixing issues with Commander crashing or advising of missing files. It will NOT reset any of Commanders settings orany controller settings.
Solutions to common machine or controller problems can be found here:
https://www.cnc3d.com.au/forum/support-faqs


Settings
General
Communication
Job Trace
My Buttons
Keyboard
Gamepad
Shuttle Pendant
WHB04B Pendant
Double buffer Datalog (Commander restart needed)
Disable automatic Axis checking
?
Number of Axes:
3
Jogging button overrides
?
When a modifier key is pressed temporarily change the distance travelled
When CTRL is held temporarily set distance to:
0.1000
When ALT is held temporarily set distance to:
1.0000
When SHIFT is held temporarily set distance to:
10.0000
Maintenance period:
3 months
?

Update and connect



Raw data window



Enter below

$sta/ssid=wifi

$sta/password=wifi

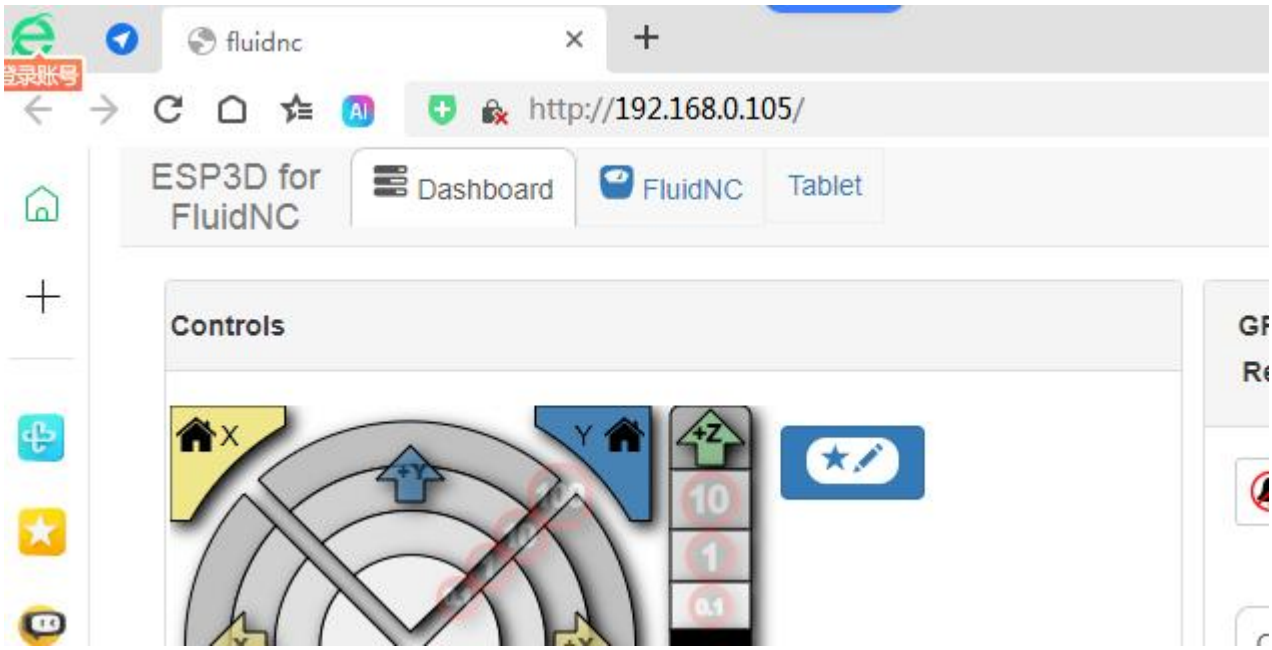
$bye

```
<< $sta/ssid=haibin-kt
>> ok
<< $sta/password=hxtbc13363258373
>> ok
<< $bye
```

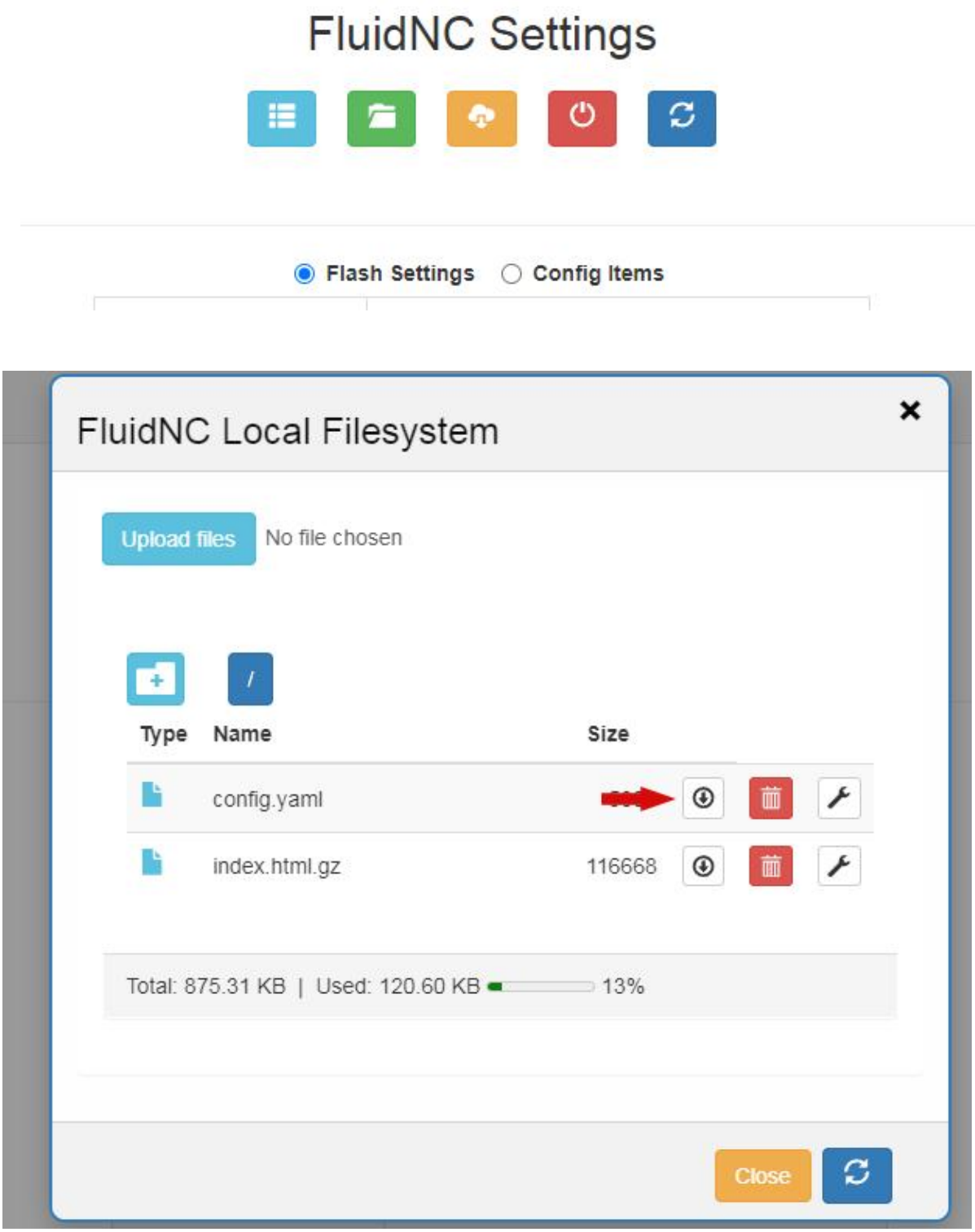
Find wifi ip

```
>> [MSG:INFO: Connected - IP is 192.168.0.105]
>> [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 the ip.



Fluidnc


FluidNC Settings
Flash Settings
Config Items
FluidNC Local Filesystem
Upload files
No file chosen
/
Type
Name
Size
config.yaml
index.html.gz
116668
Total: 875.31 KB | Used: 120.60 KB
13%
Close

```
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_per_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
```

More refer to

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