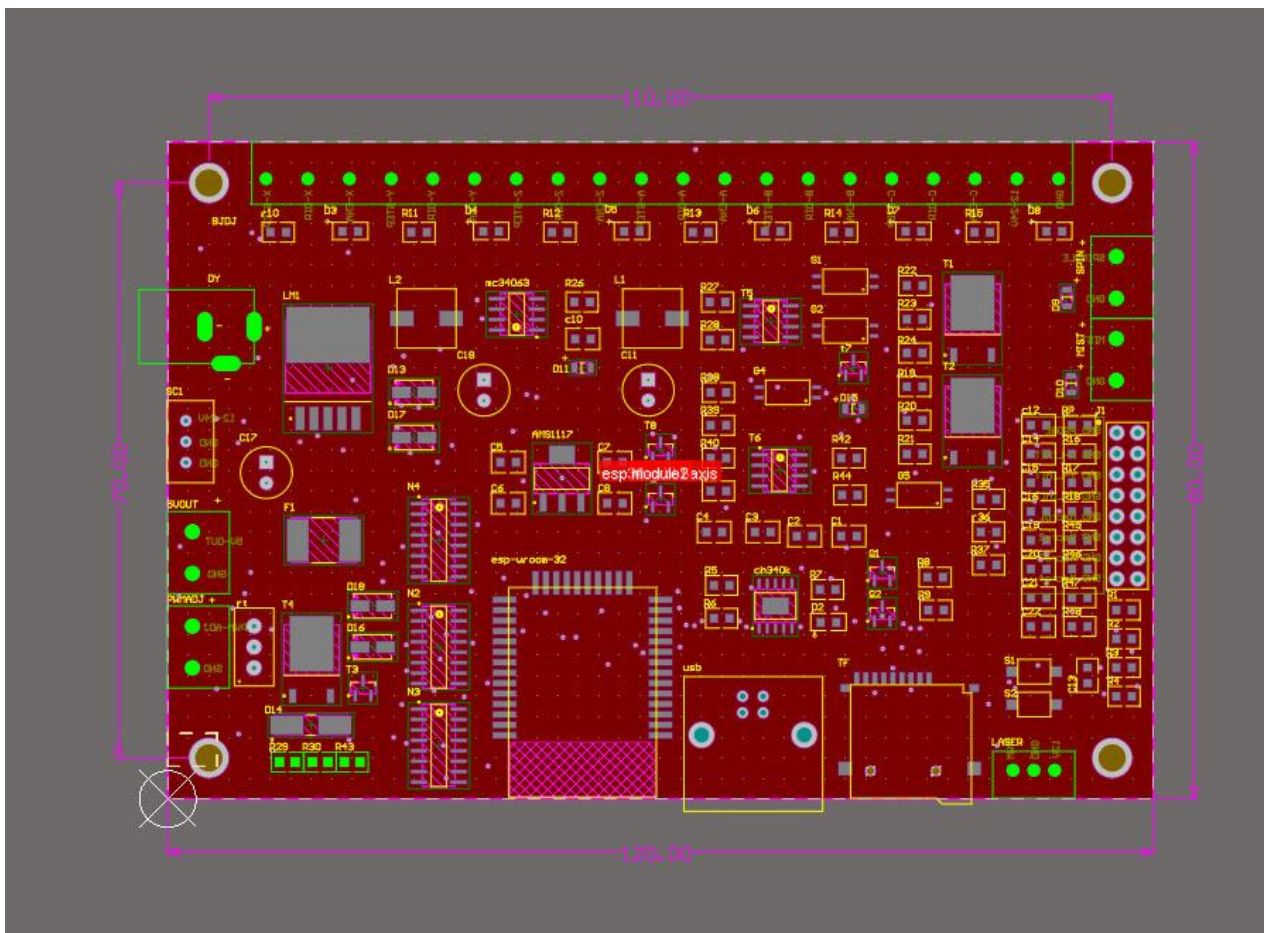
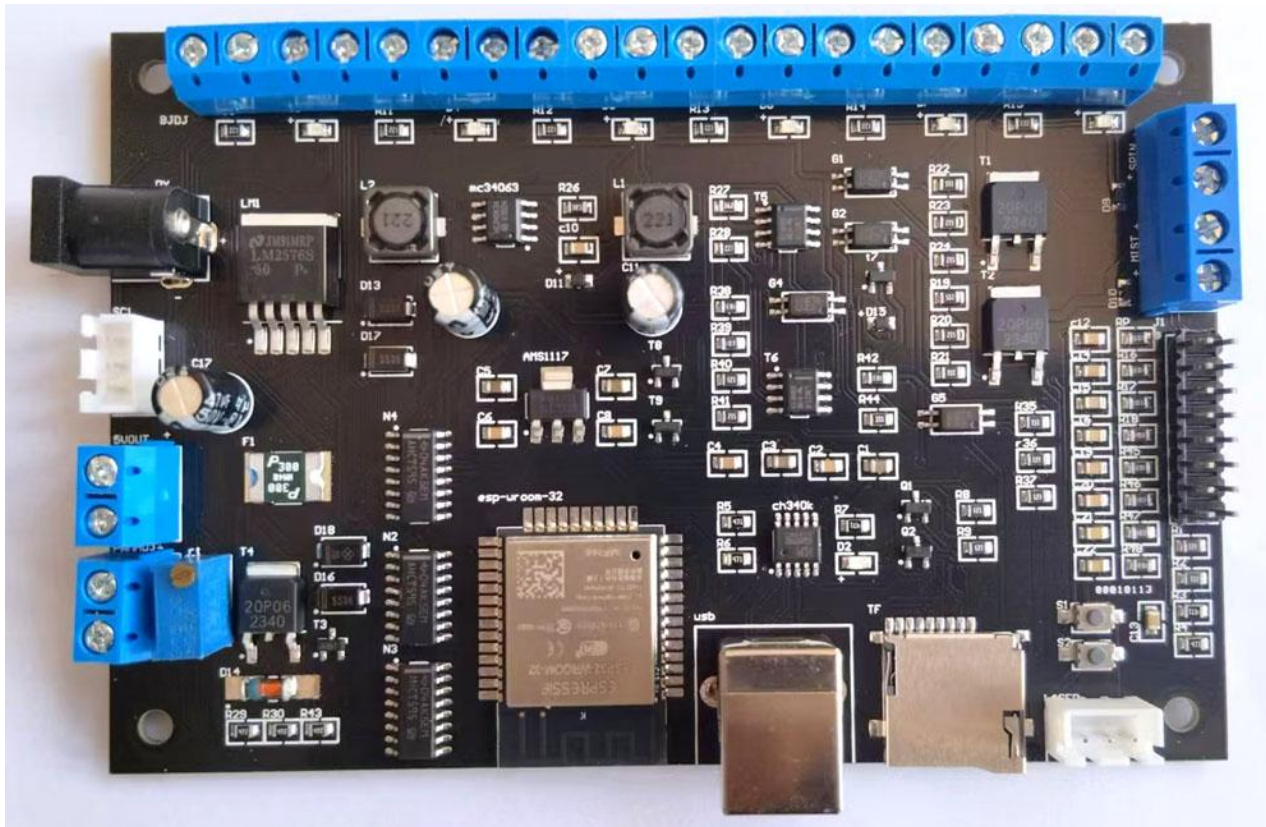


How to buy.

<http://www.aliexpress.com/item/info/1005004644140352.html>



How to buy.

<http://www.aliexpress.com/item/info/1005004644140352.html>

## 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

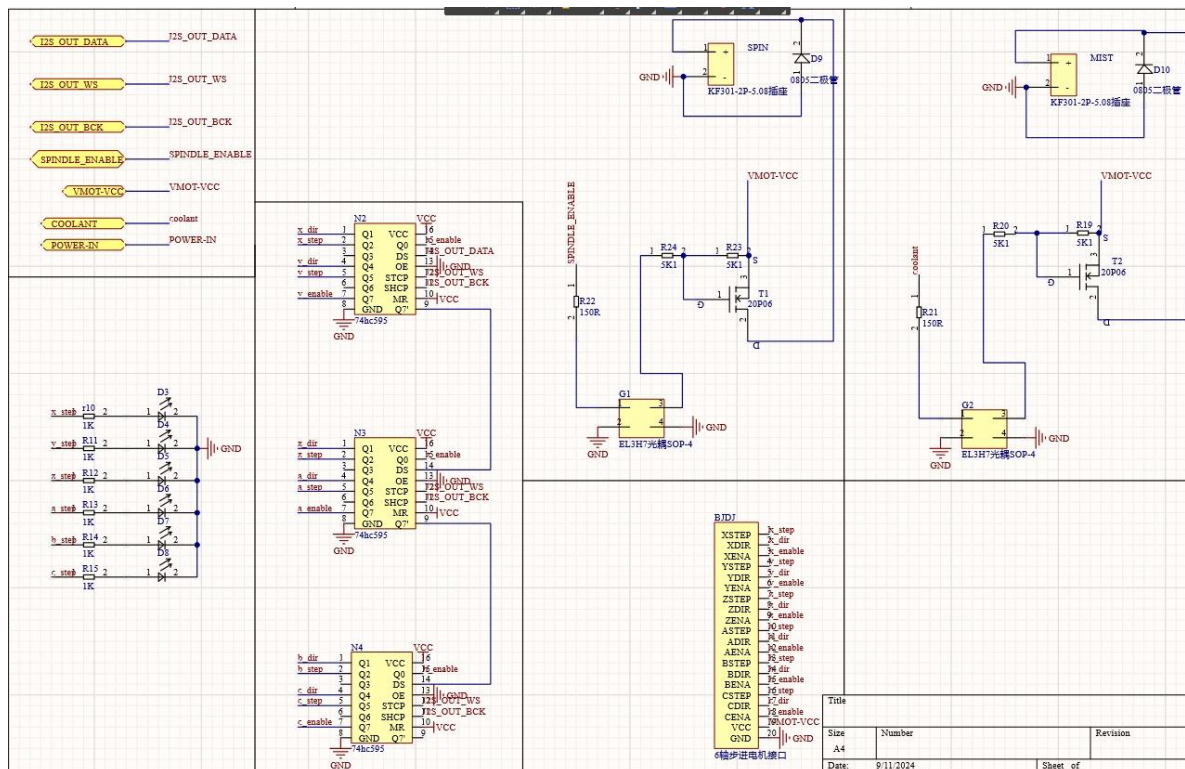
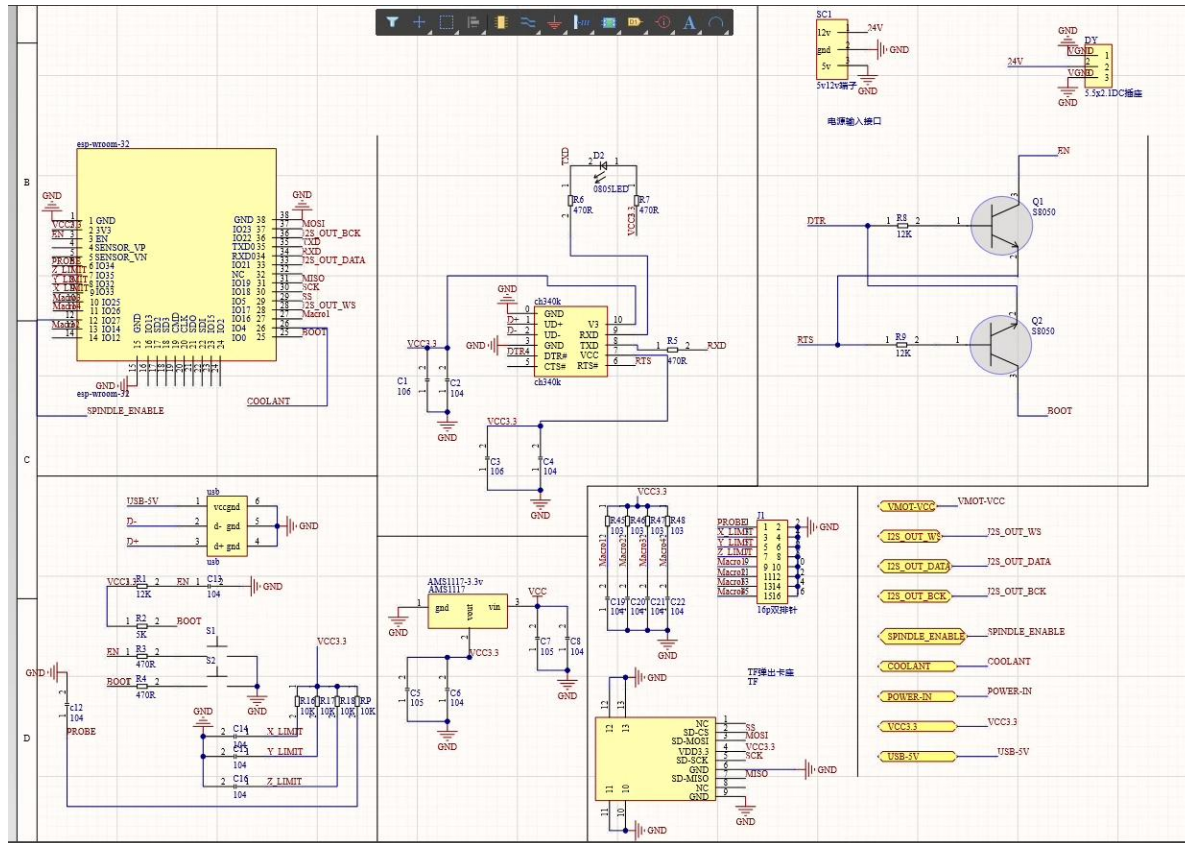
Auto-cut off power when voltage exceeding 30V.

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



## How to buy.

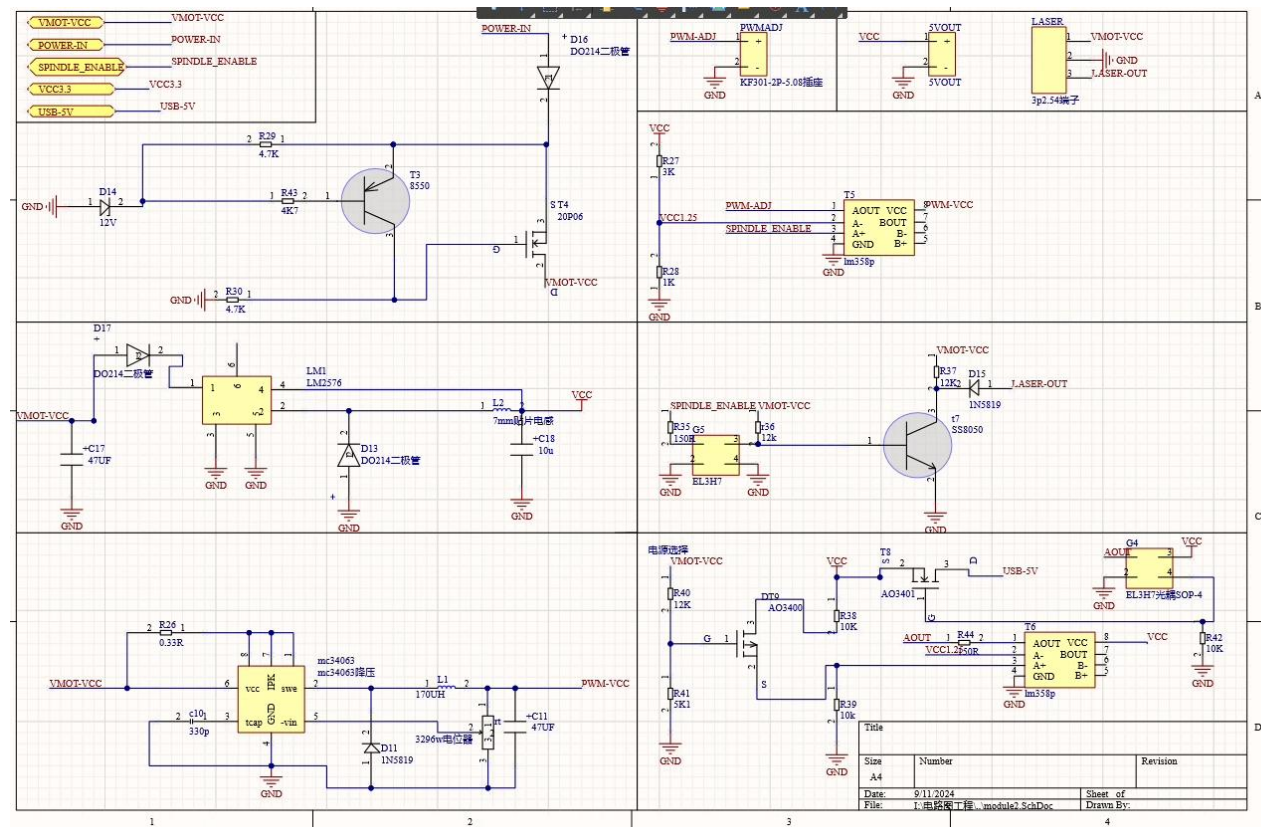
<http://www.aliexpress.com/item/info/1005004644140352.html>



Title	Number	Revision
A4		
Date: 9/11/2024	Sheet of	
File: 4轴步进电机接口	Rev: 1.0	

## How to buy.

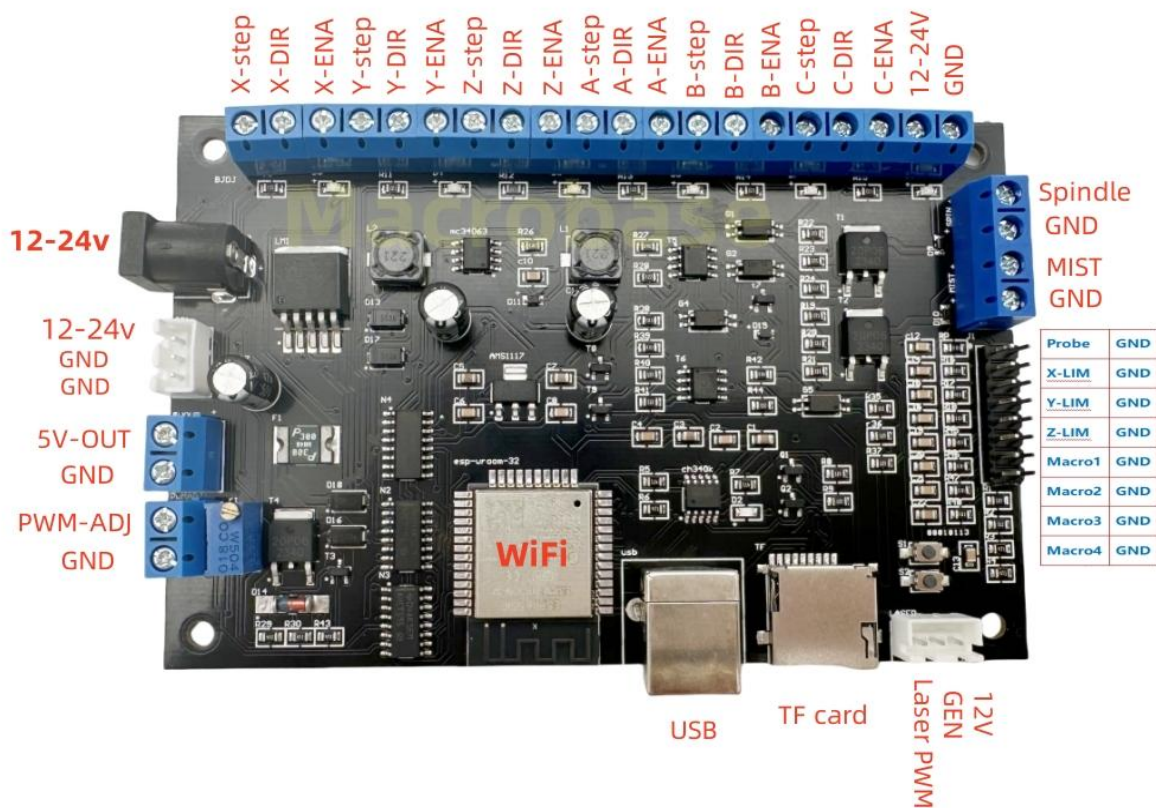
<http://www.aliexpress.com/item/info/1005004644140352.html>



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<http://www.aliexpress.com/item/info/1005004644140352.html>

## Wiring



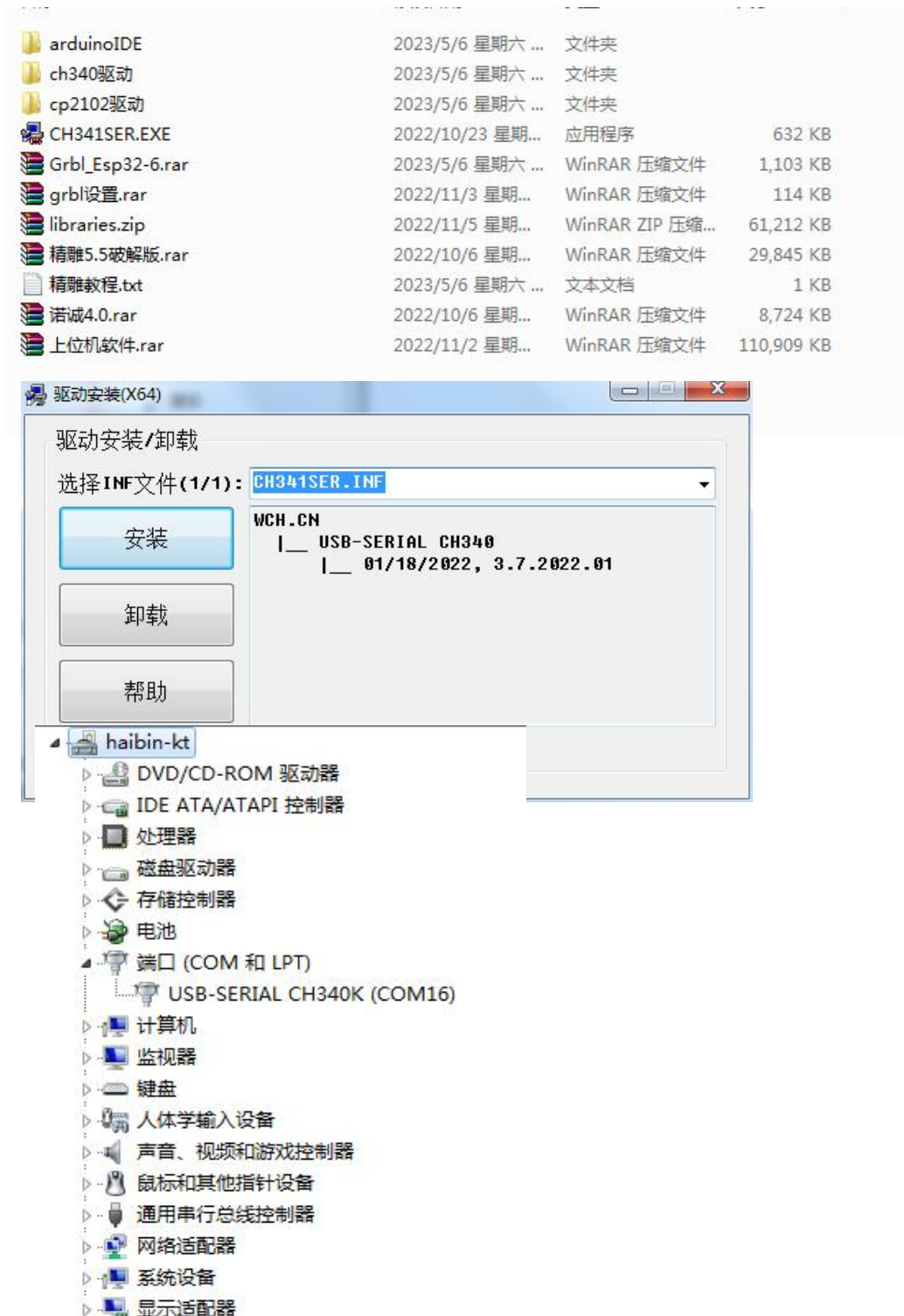
PROBE	Z-probe
X-LIM	X limit,Always on
Y-LIM	Y limit,Always on
Z-LIM	Z limit,Always on
GND	XYZ axis com,probe
PWM-OUT	PWM output
GND	PWM ground
PWM-ADJ	PWM adjustable
GND	All drivers PUL-,EAN-,DIR-
X-STEP	X-PUL+
X-EAN	X-ENA+
X-DIR	X-DIR+



How to buy.

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## Install ch340 USB Driver



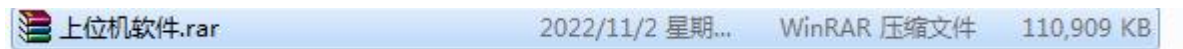
See CH340K,successfully install.

How to buy.

<http://www.aliexpress.com/item/info/1005004644140352.html>

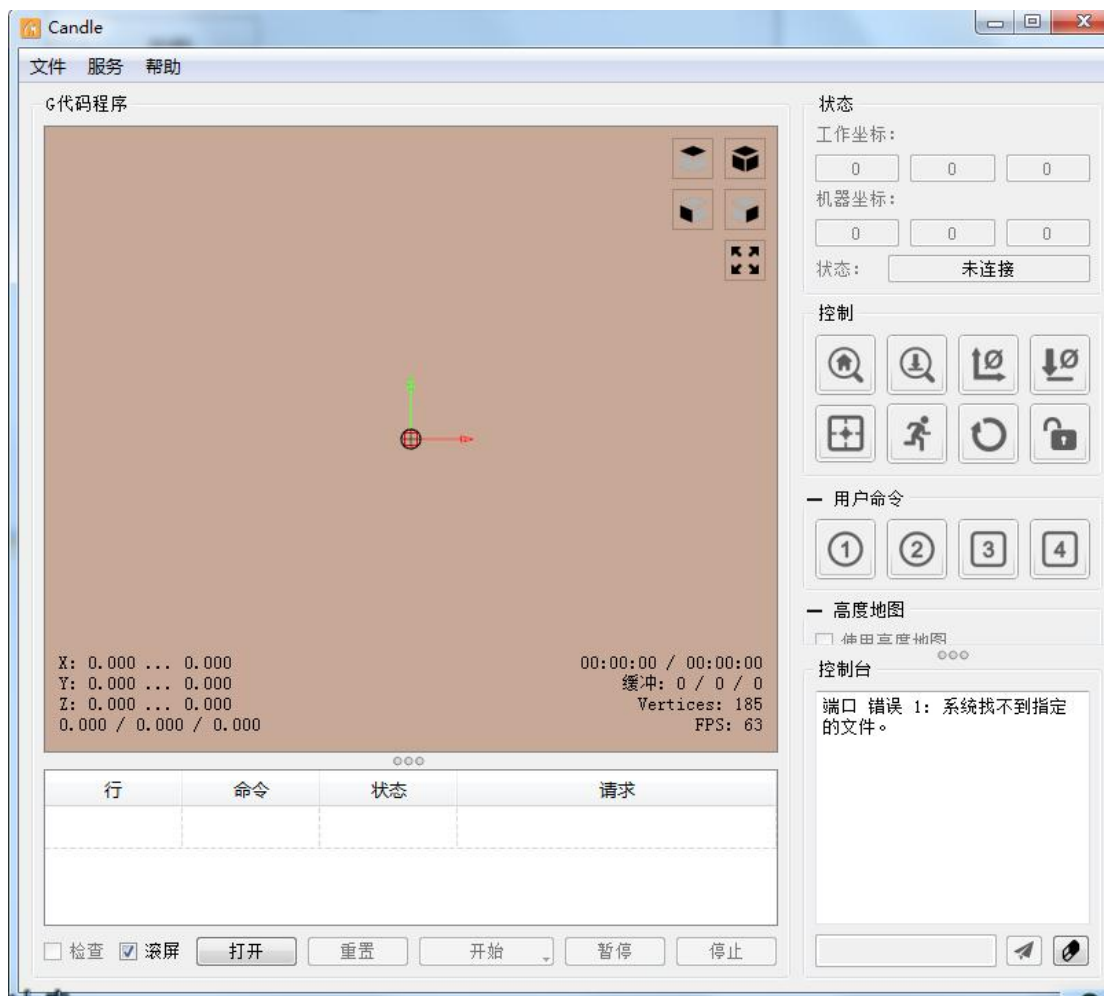
## Software

Candle,CNC3dCommander and Bcnc.



### 1.Candle

Unzip candle and open [candle.exe](#)



How to buy.

<http://www.aliexpress.com/item/info/1005004644140352.html>

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



How to buy.

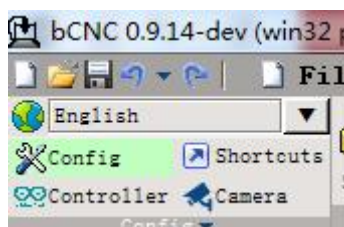
<http://www.aliexpress.com/item/info/1005004644140352.html>

## 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.

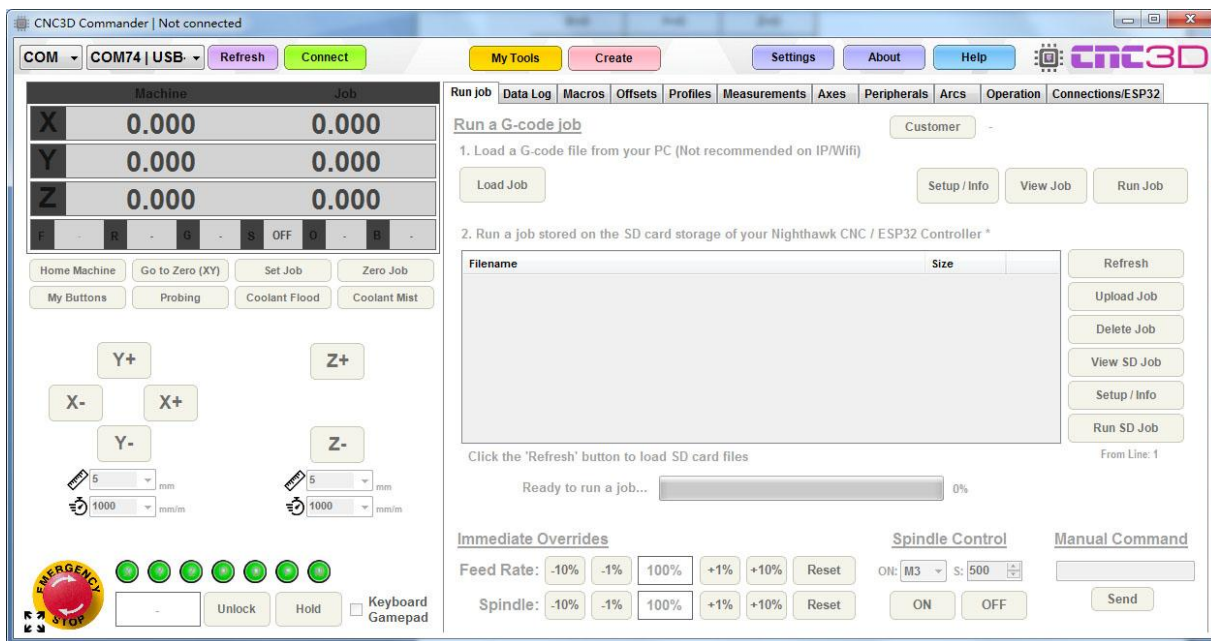


How to buy.

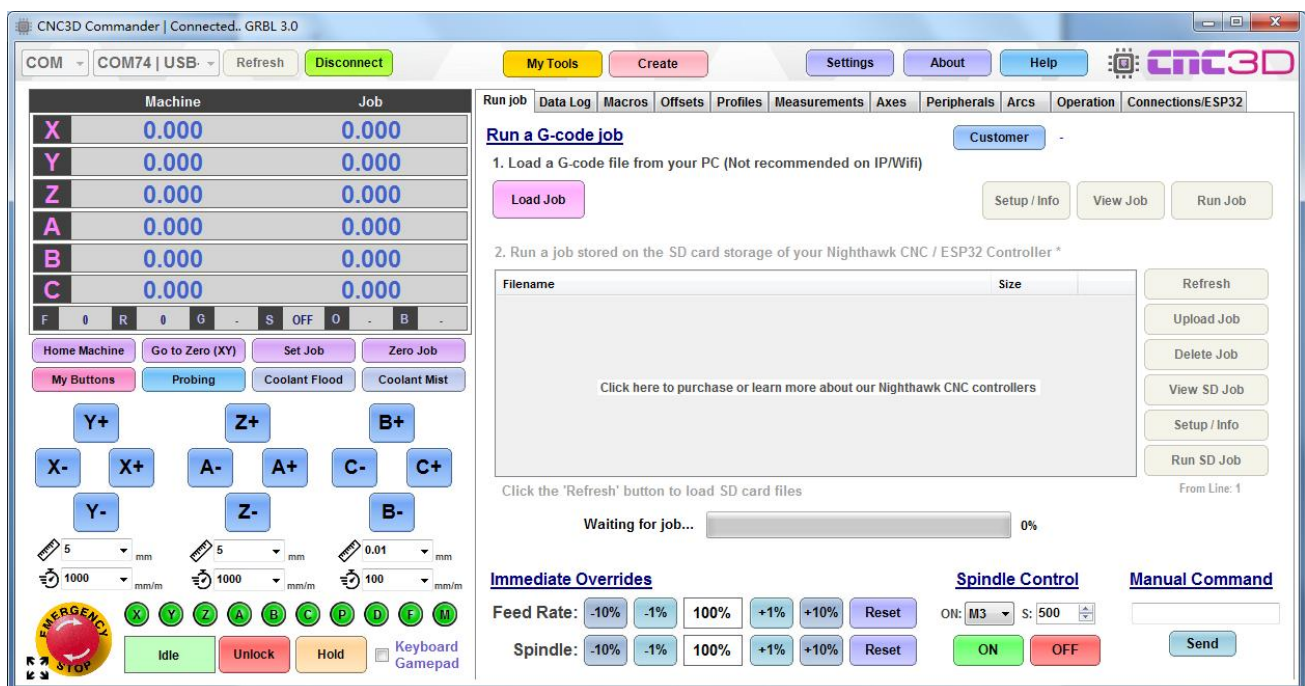
<http://www.aliexpress.com/item/info/1005004644140352.html>

### 3.CNC3d Commander

Open CNC3dcommander as below

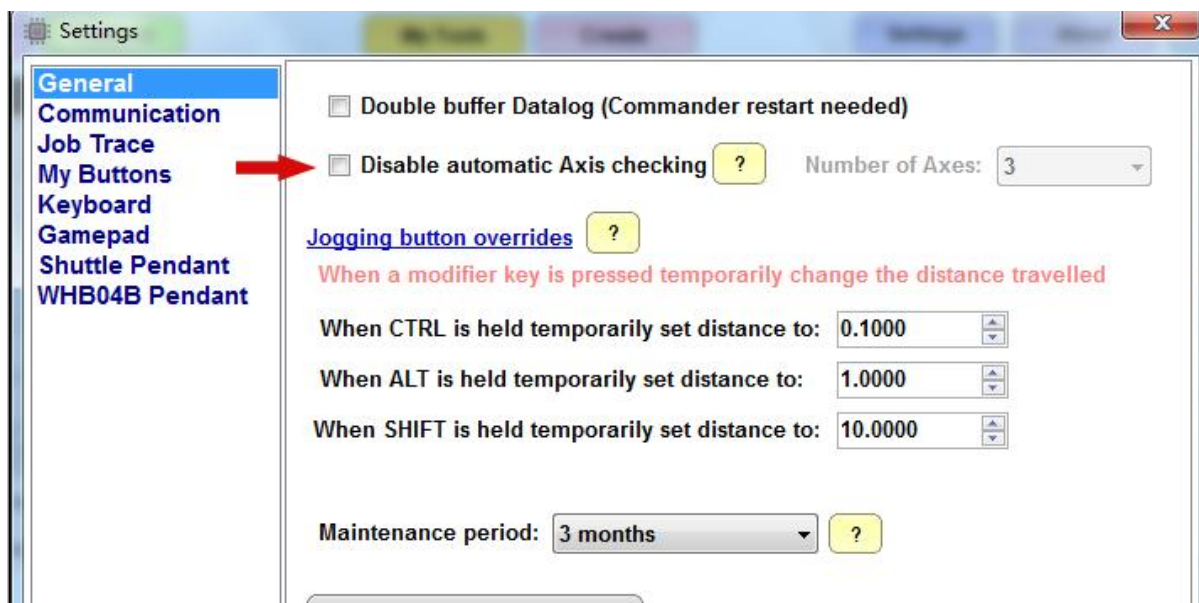
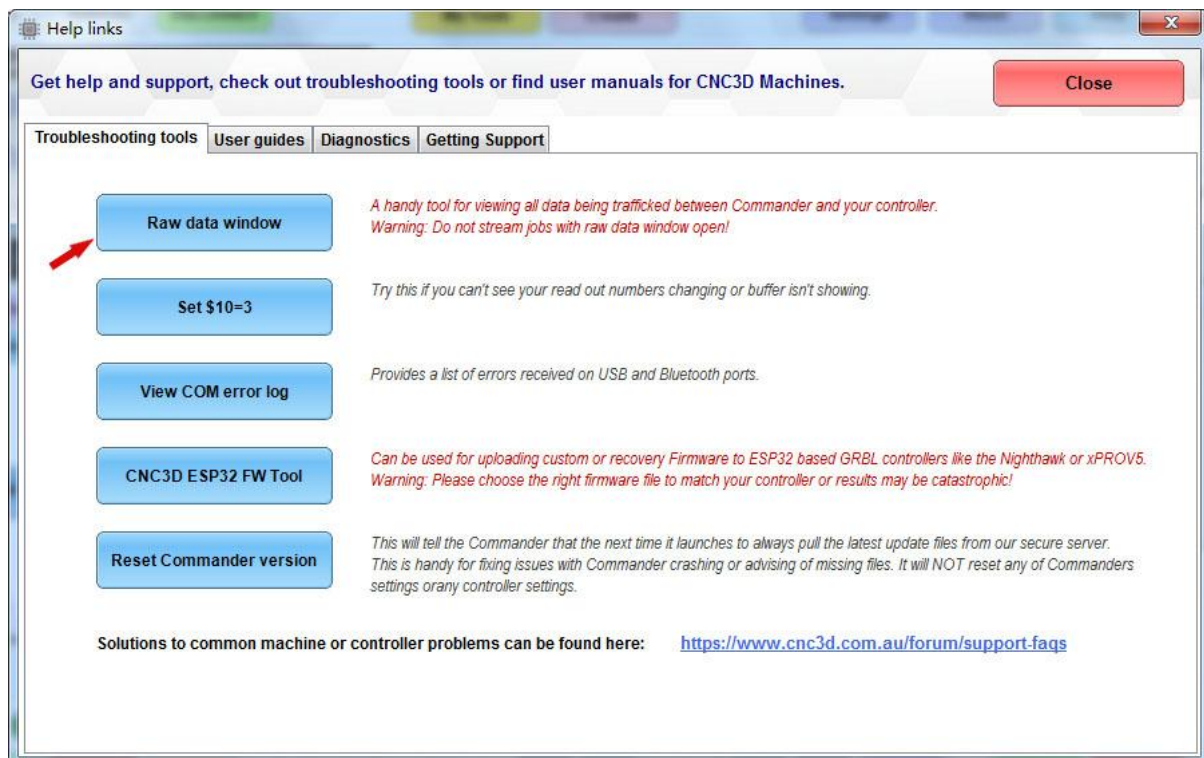


Connect control board and reflash.



## How to buy.

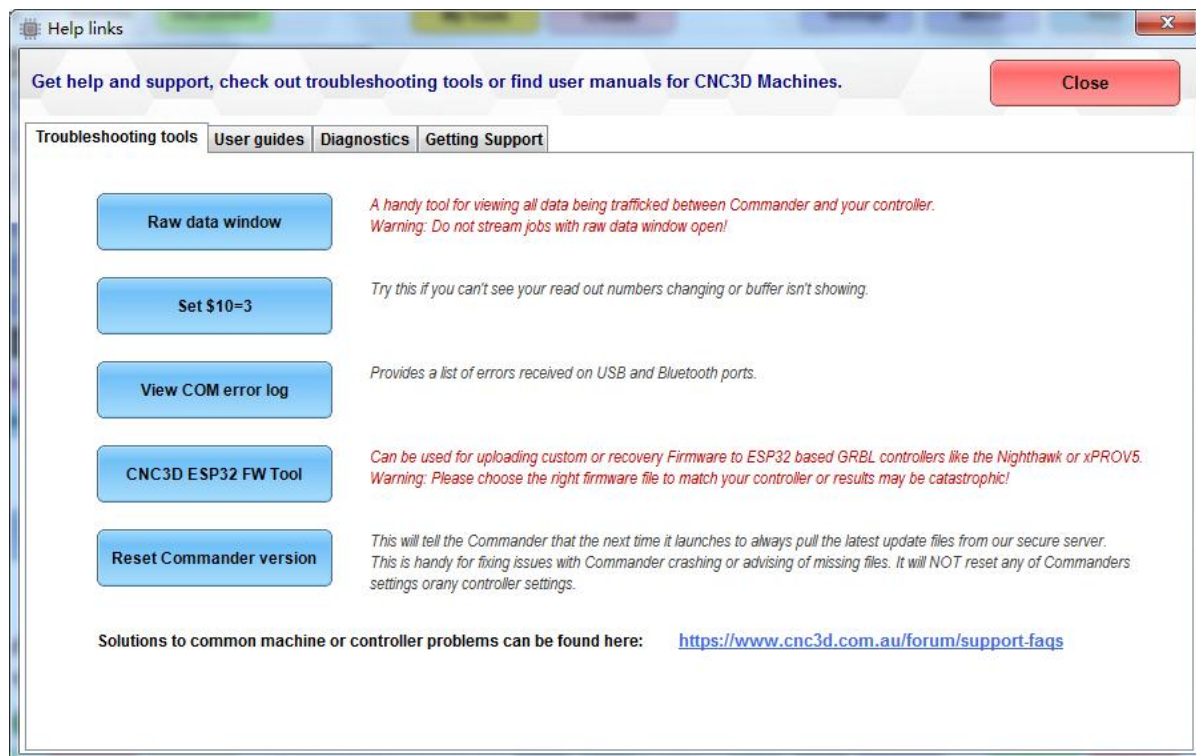
<http://www.aliexpress.com/item/info/1005004644140352.html>



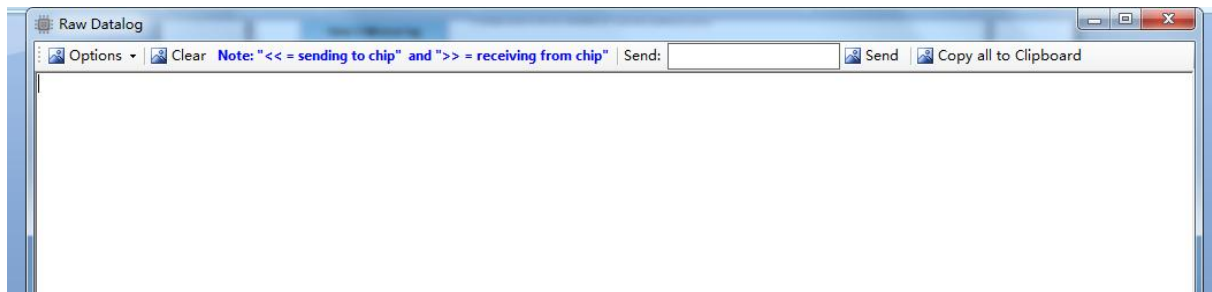
How to buy.

<http://www.aliexpress.com/item/info/1005004644140352.html>

## 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
```



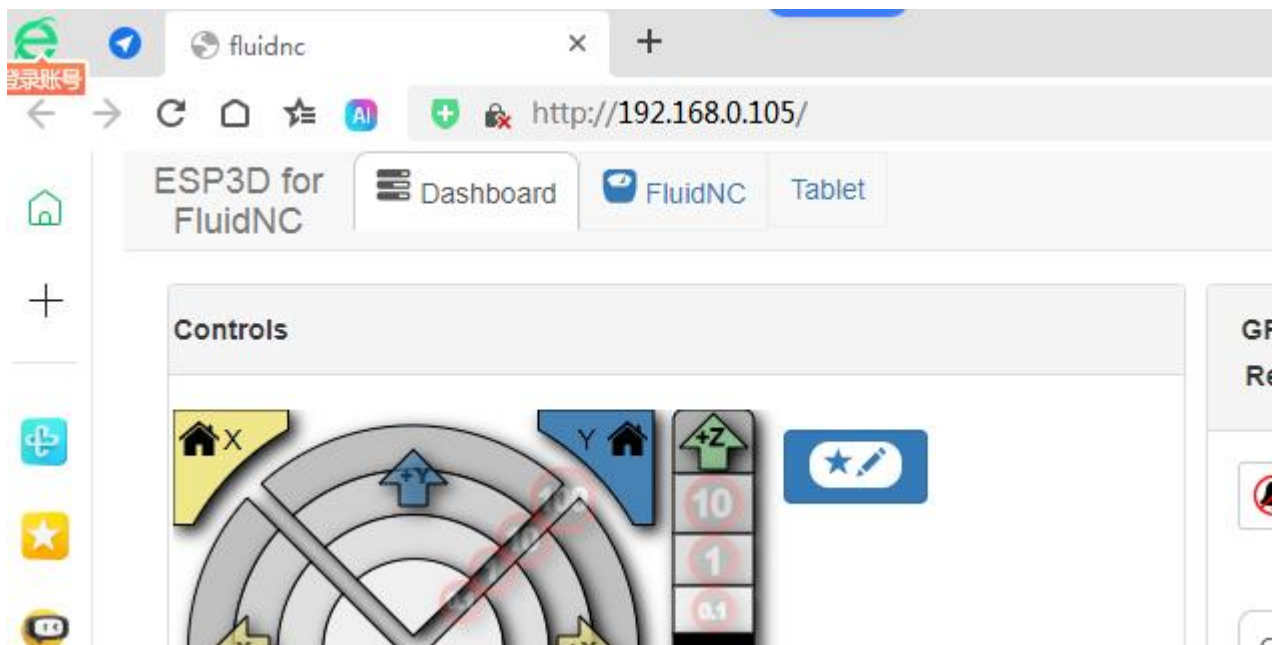
How to buy.

<http://www.aliexpress.com/item/info/1005004644140352.html>

## 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.



How to buy.

<http://www.aliexpress.com/item/info/1005004644140352.html>

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

#### How to buy.

<http://www.aliexpress.com/item/info/1005004644140352.html>

```
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>