How to buy.
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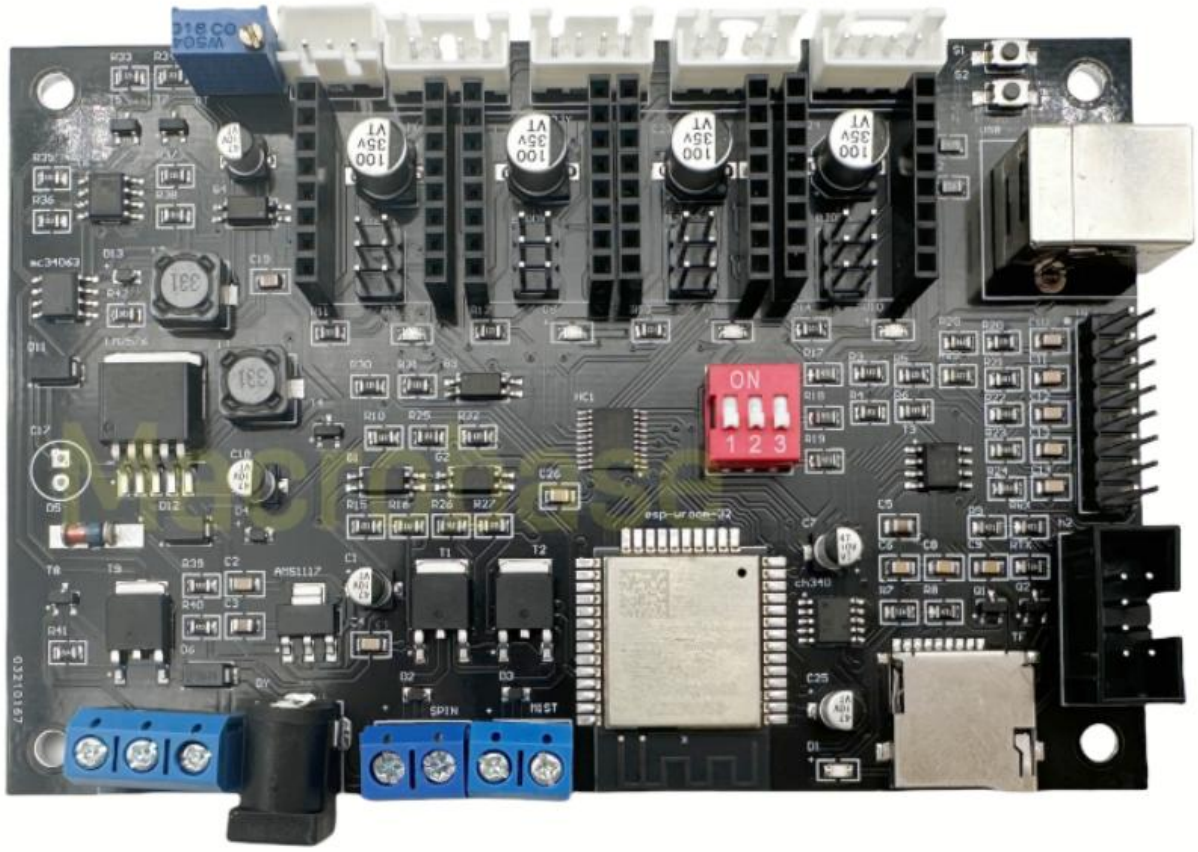

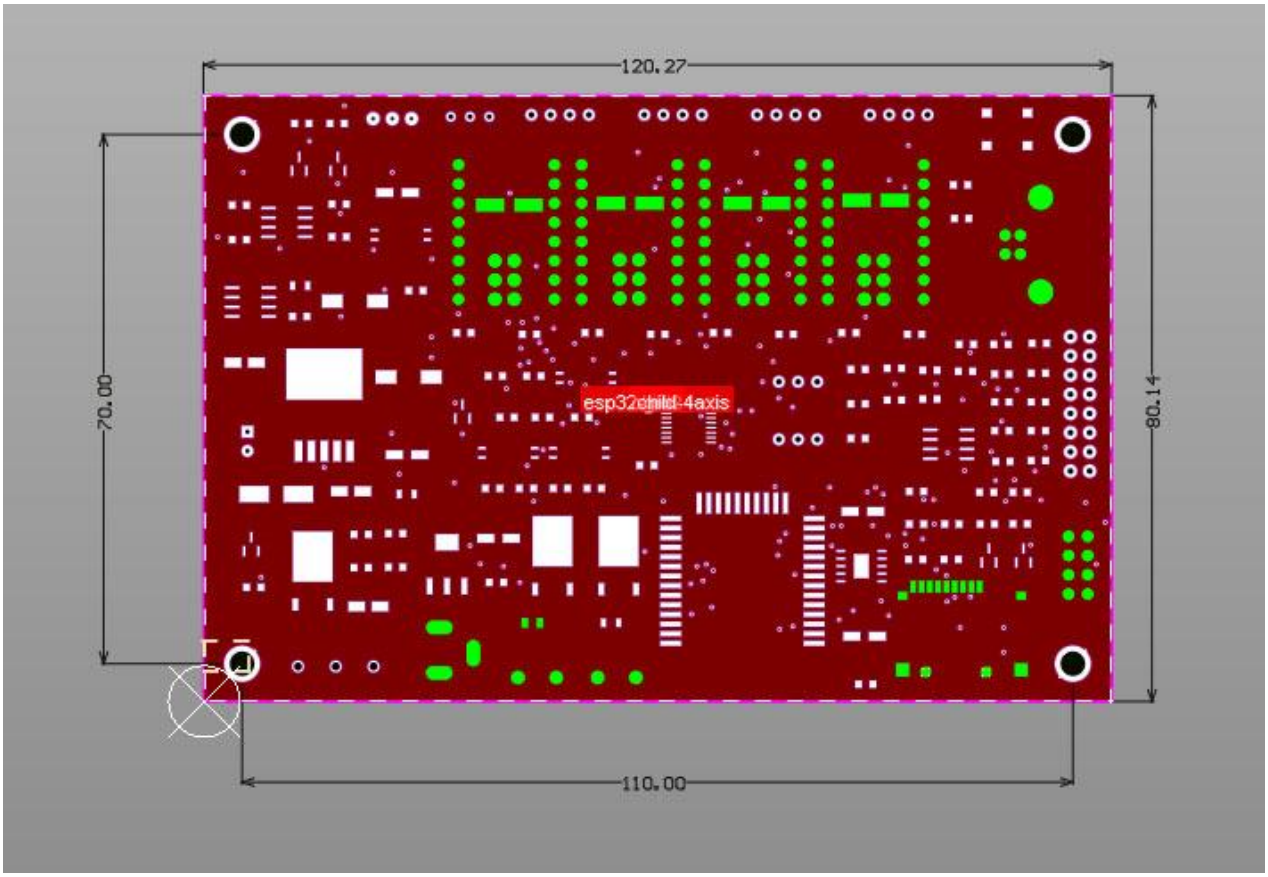

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Features

- Adopting ESP32 16-bit high-speed processor
- Compatible with GRBL software,Such as Candle,Bcnc,CNC3D COMMANDER...
- Support four stepper drivers,including X,Y,Z,A axis.
- Support Homing,software/hardware endstop,Z probe.
- Support hotspot,Wifi wireless 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.

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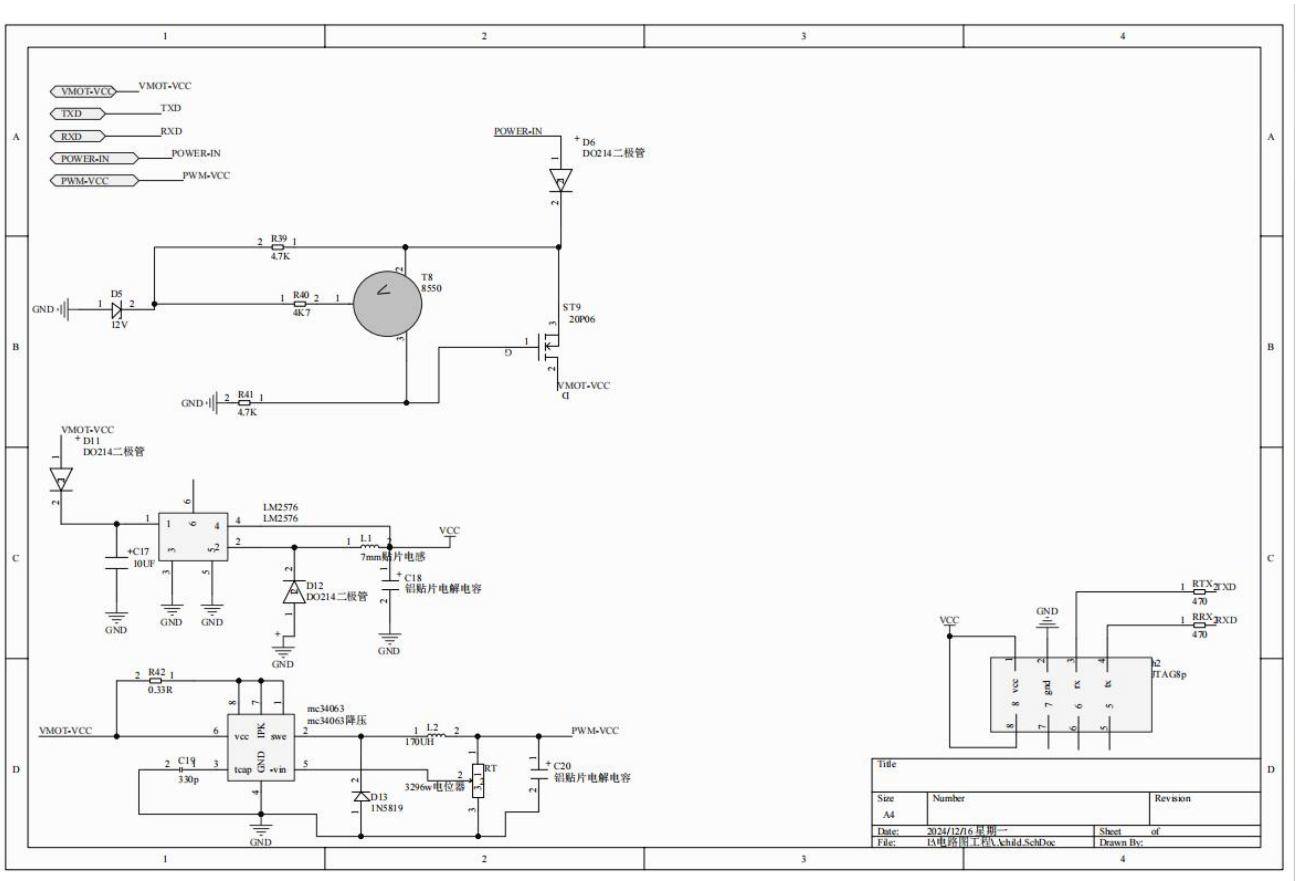

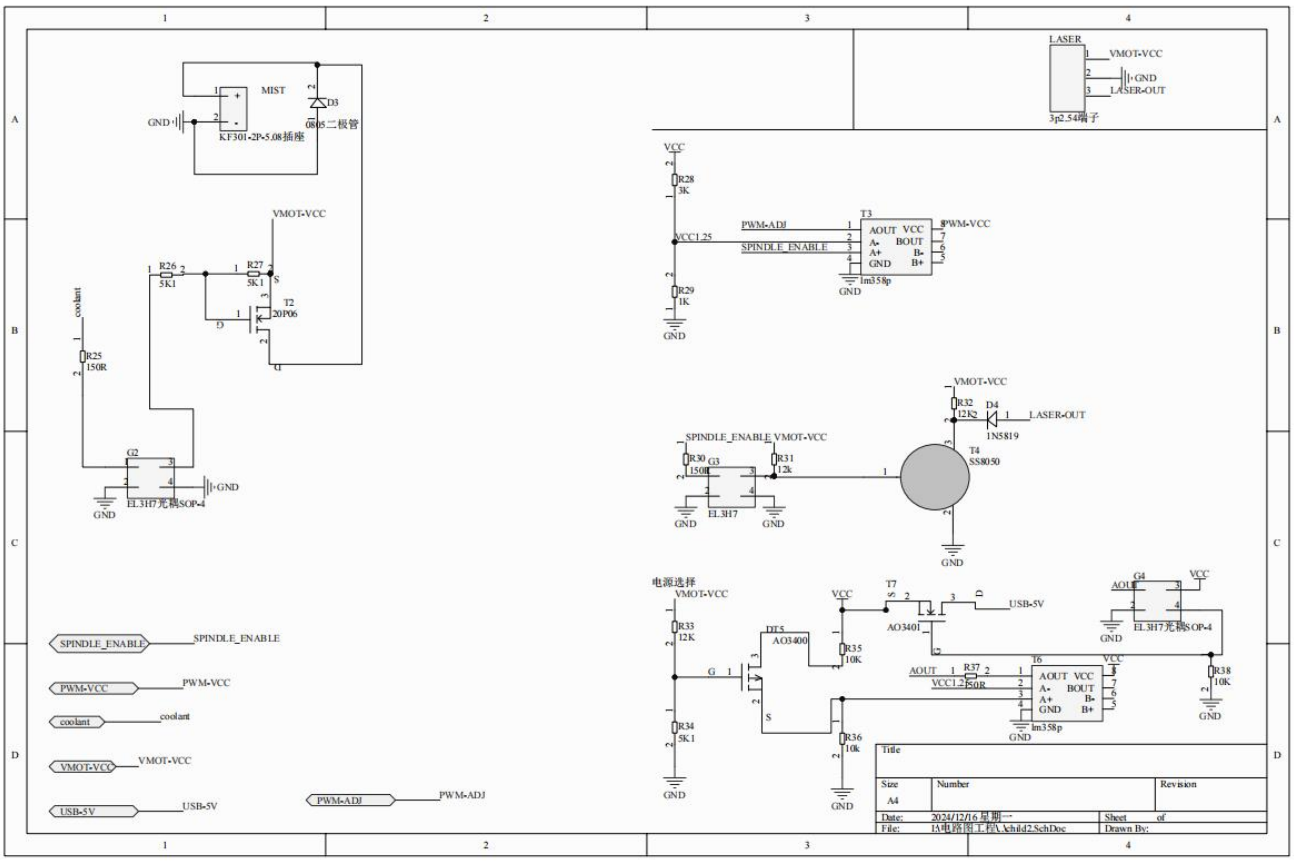

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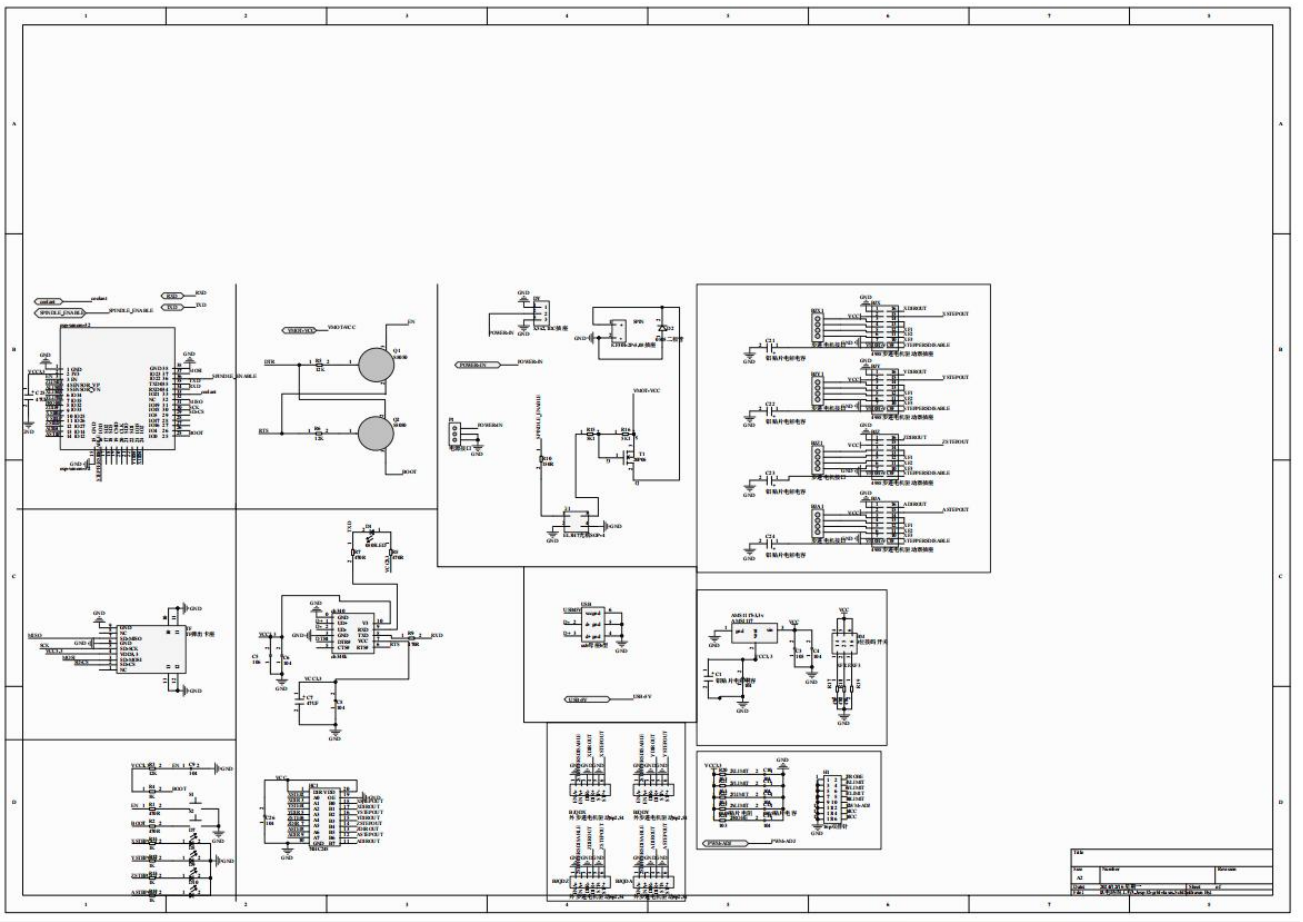

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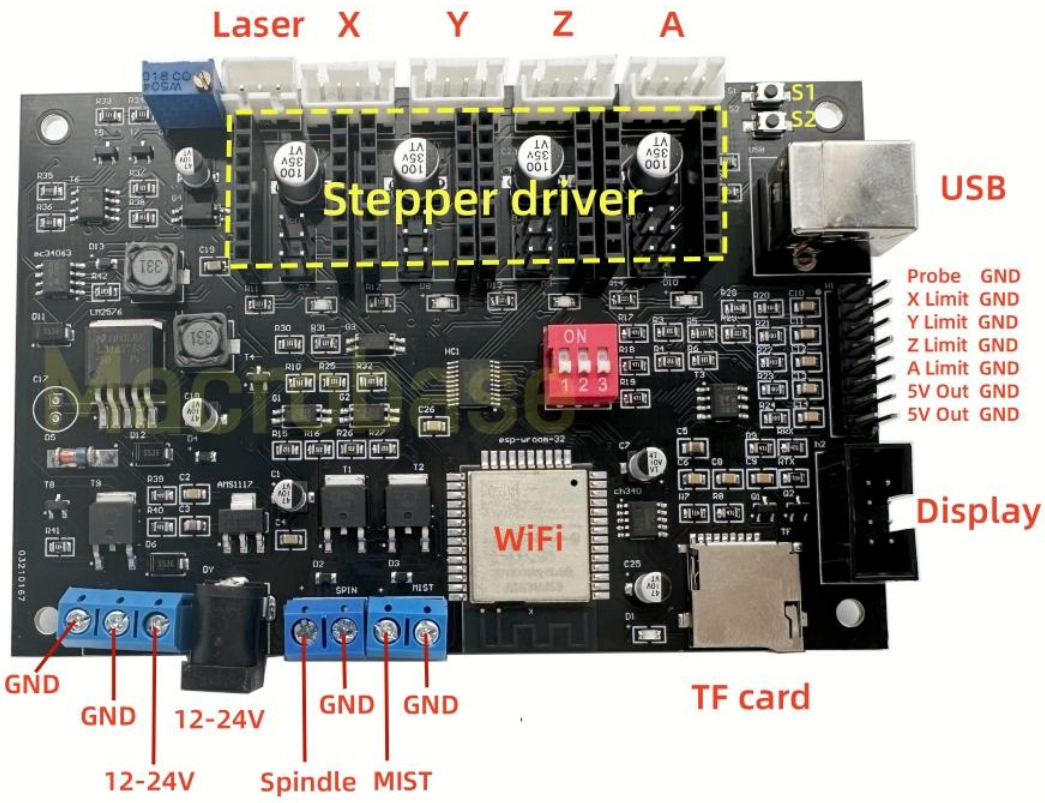
Wiring



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,Z probe
PWM-OUT	PWM Output
GND	PWM ground
PWM-ADJ	PWM voltage adjust
5v-out	5v Output
spindle	Spindle relay
mist	Hydrocooling relay

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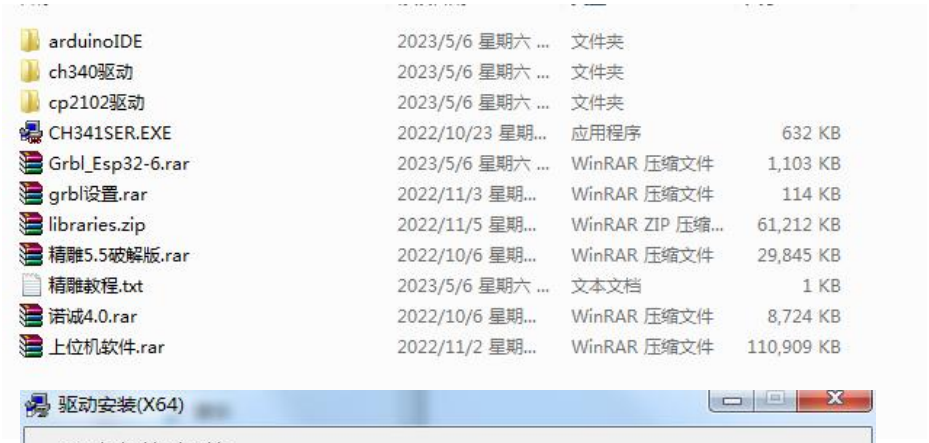
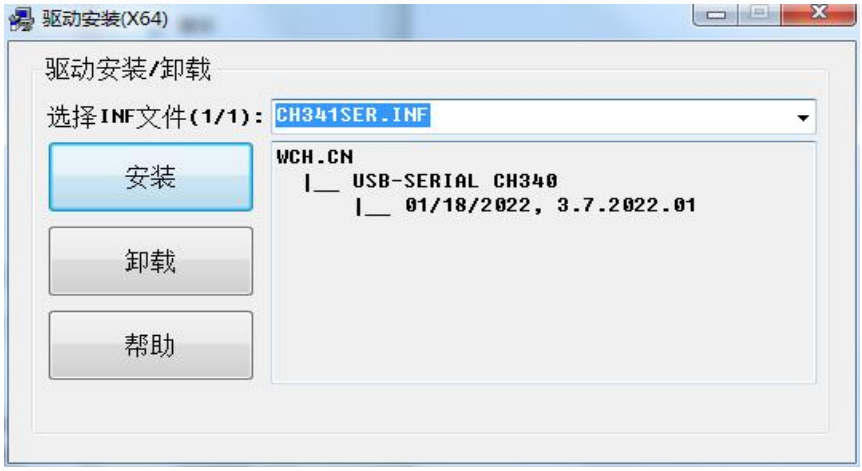
Install ch340 USB Driver





Successfully install when CH340K comes up.

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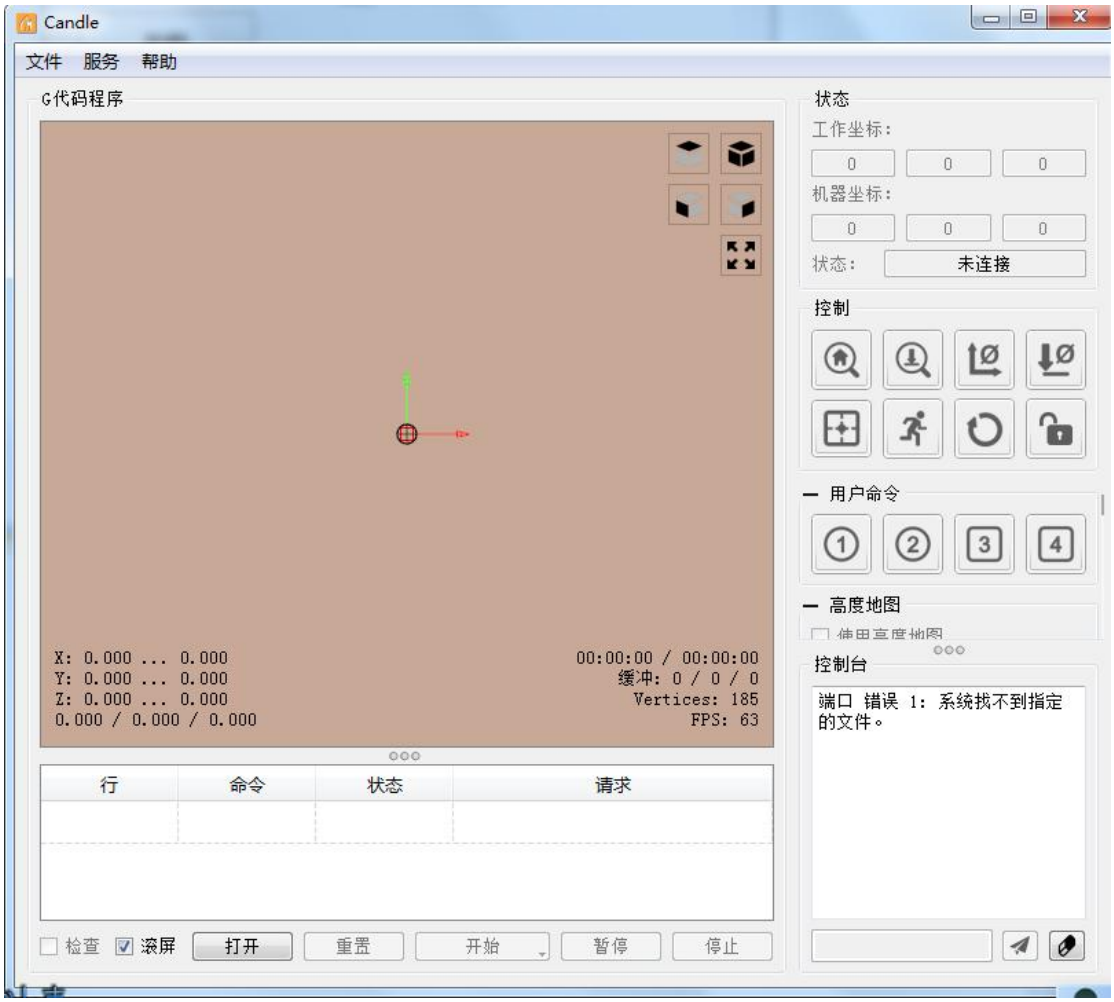
Software

Candle,CNC3dCommander and Bcnc.

1.Candle

Unzip candle and open candle.exe



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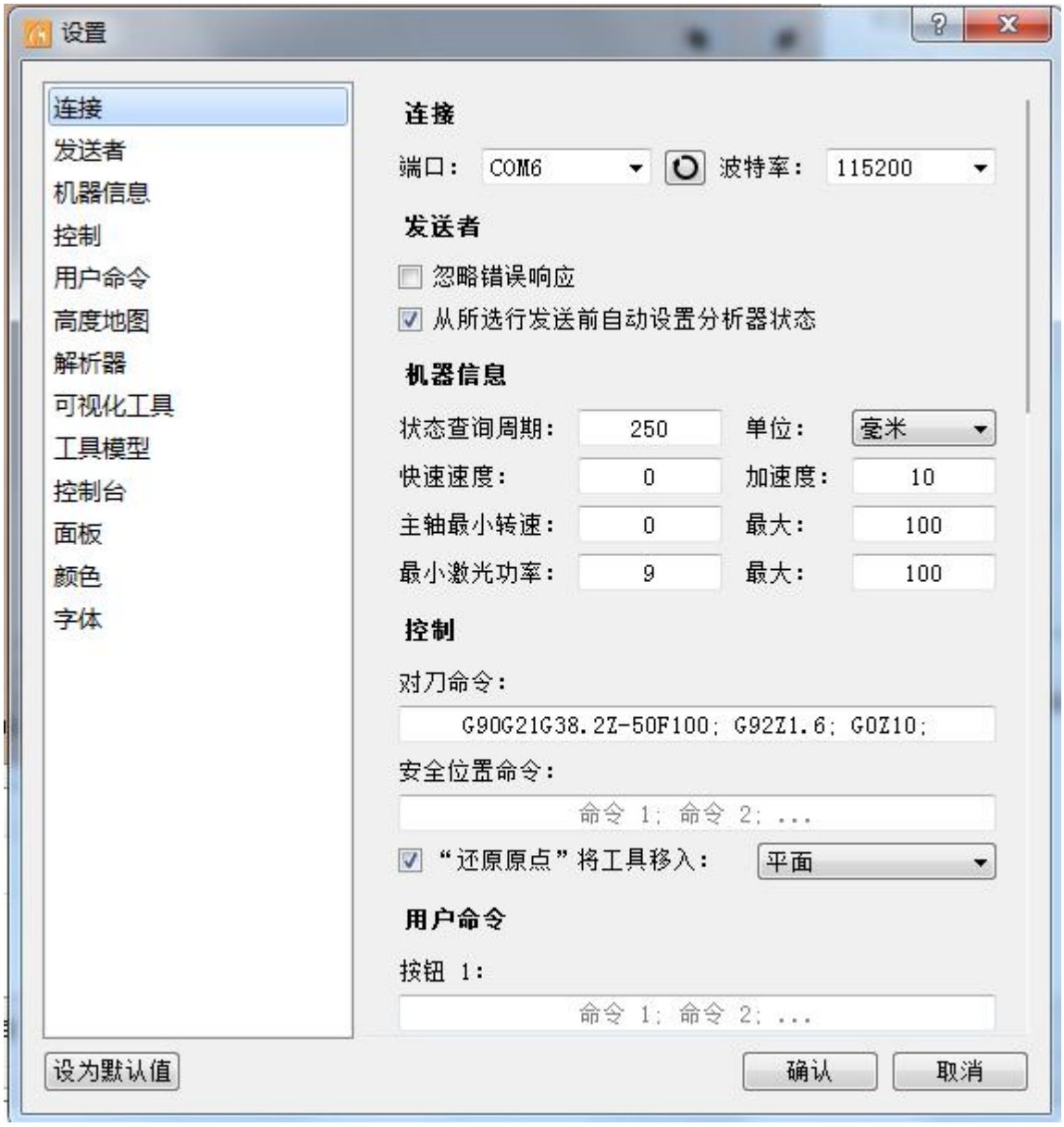

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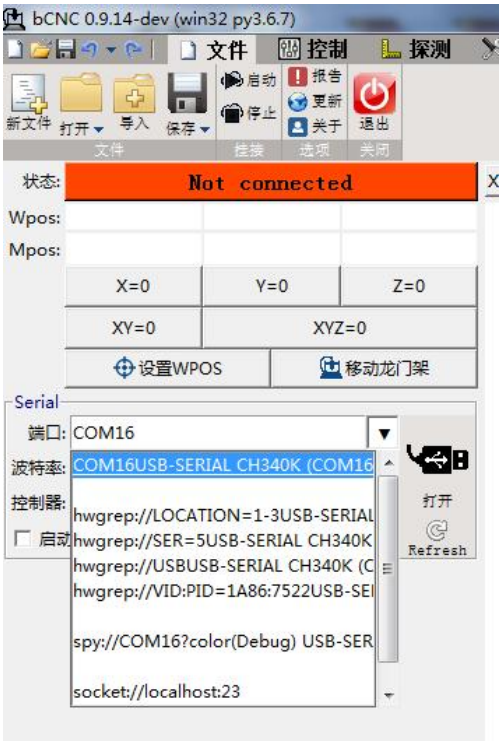
2. BCNC

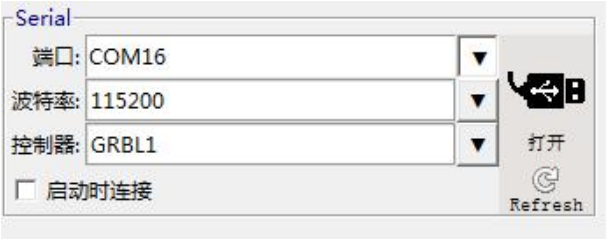
Plug control board to PC via USB cable,and enter bcnc.exe

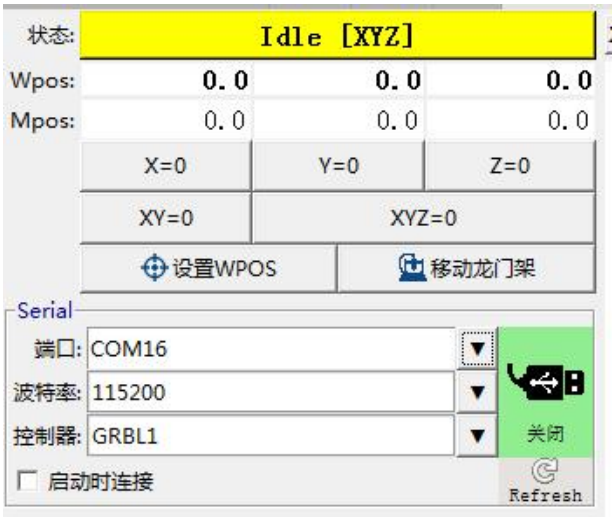
Click CAM,select language.

Enable 6 axis displays,then reboot software.

Click file,select COM and open it.







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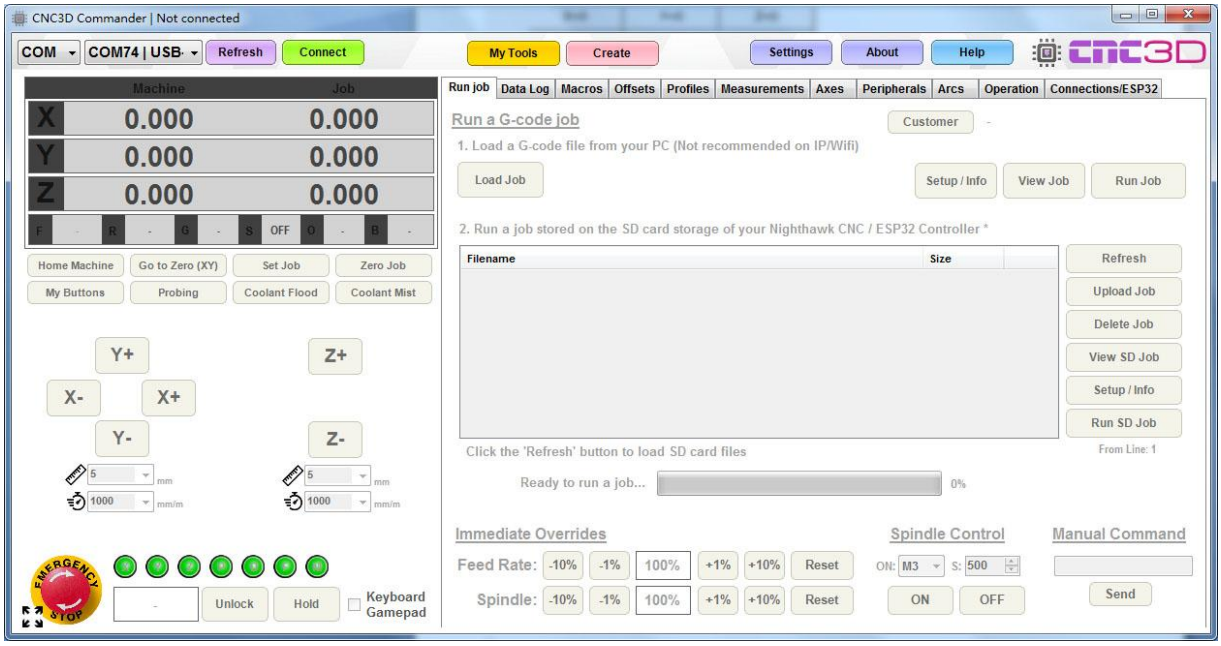
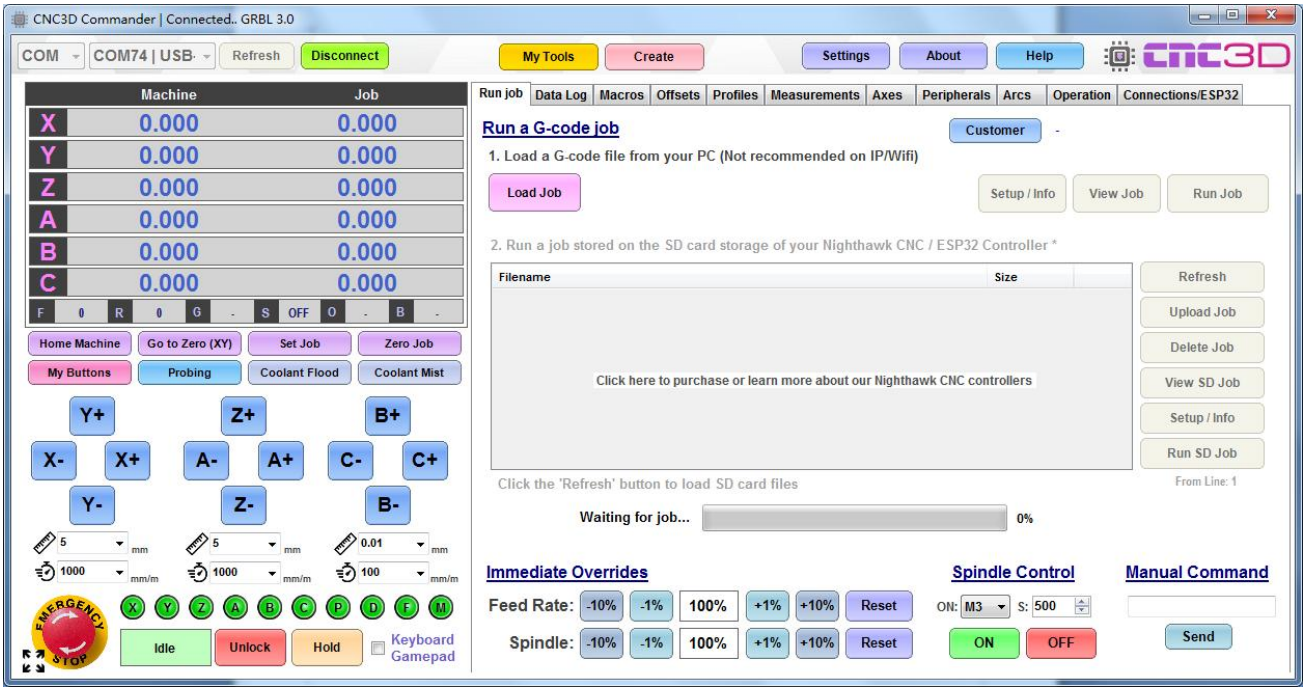
3.CNC3d Commander

Open CNC3dcommander as below



Connect control board and reflash.



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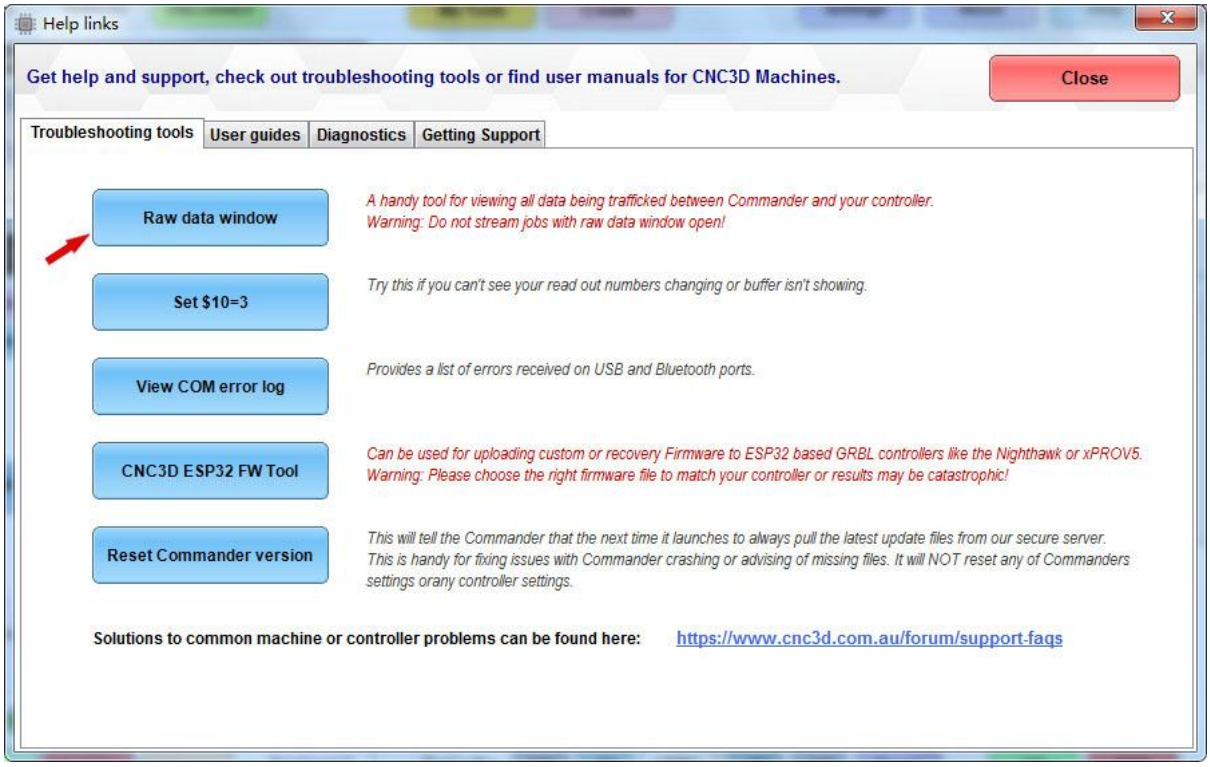

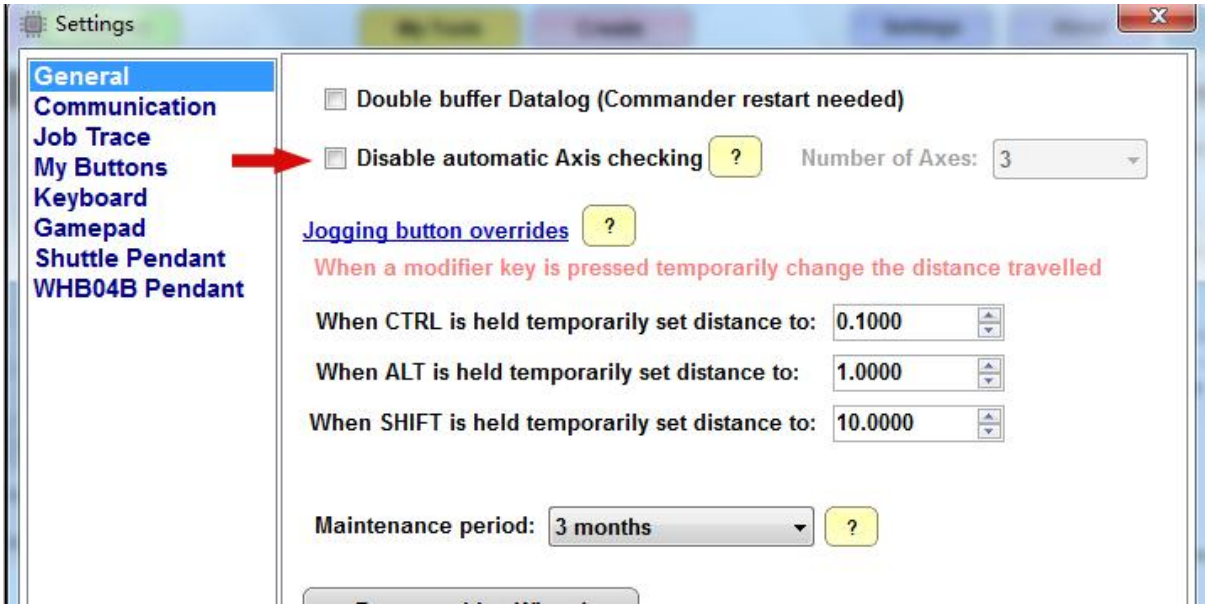

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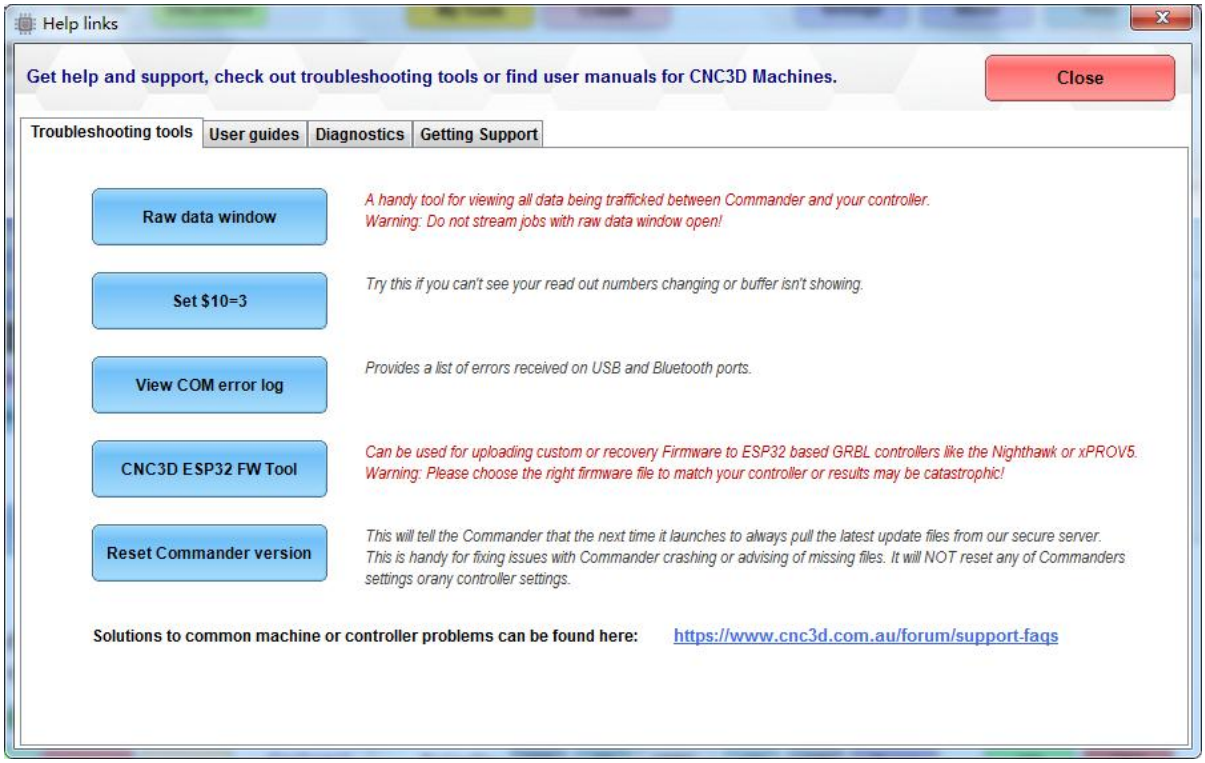
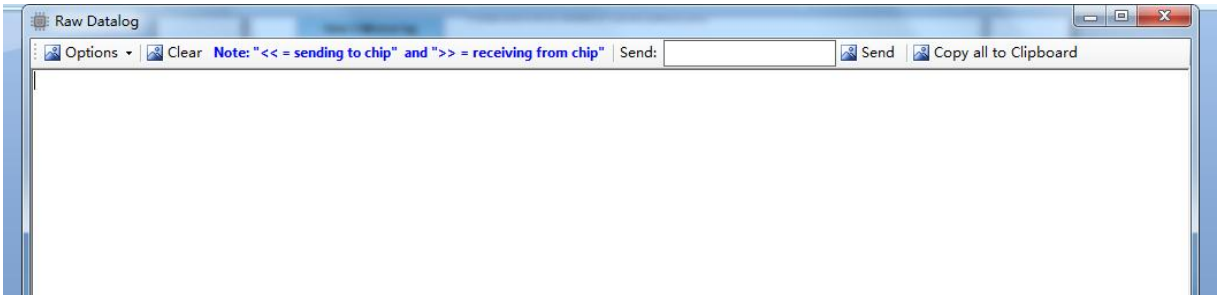
Update and connect



Raw data window



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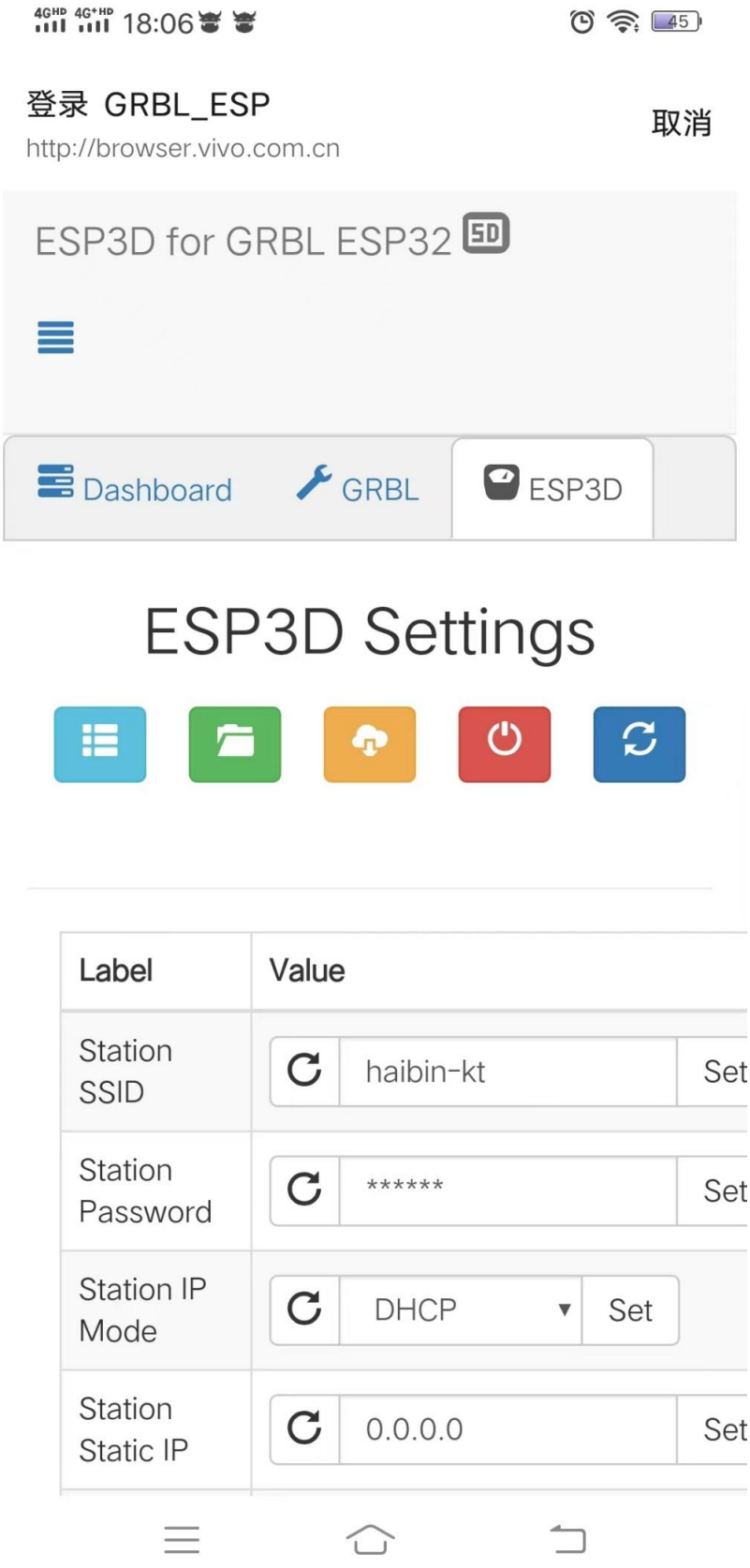
WiFi

It will come up a Hotpot, Name:GRBL_ESP, Keyword:12345678.



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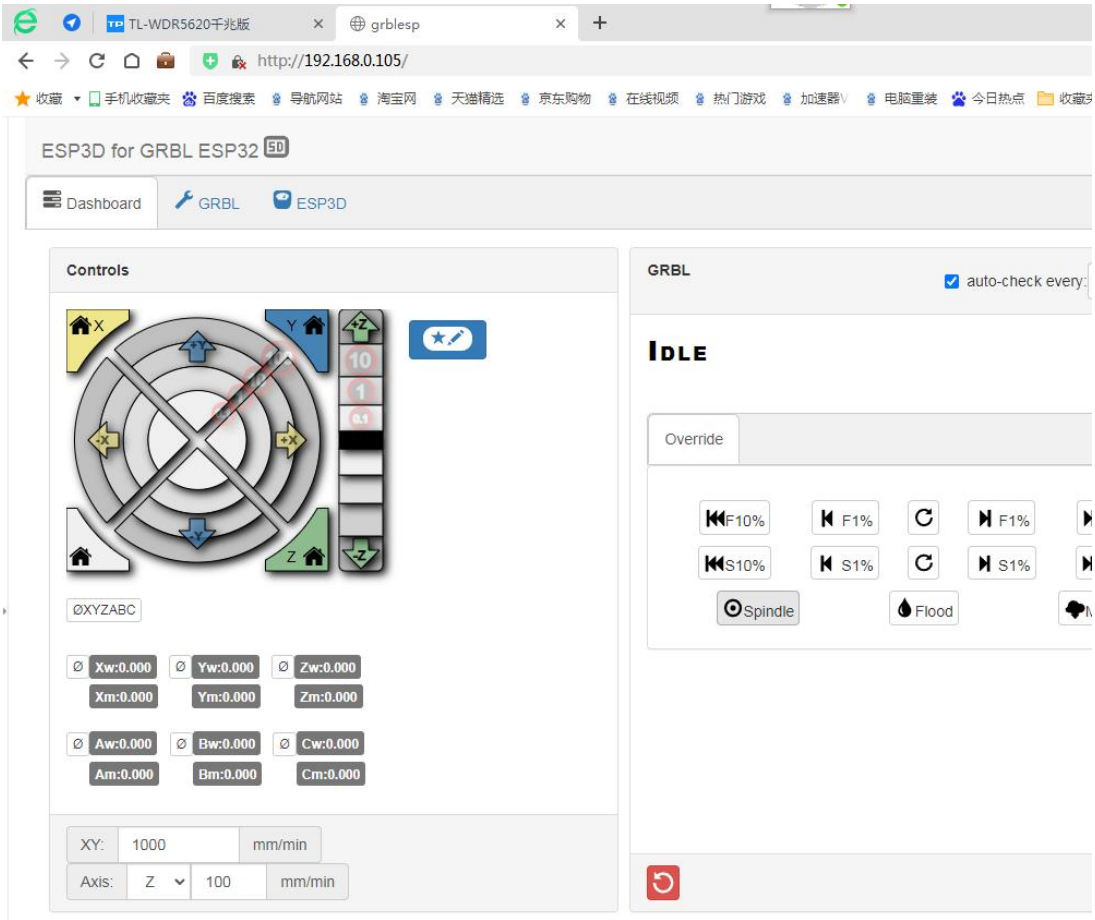

Restart to change Radio mode. Restart ESP32 and enable Bluetooth.

When in BT mode,switch back to WiFi from Bluetooth console by $Radio/mode=STA

or $Radio/Mode=AP, and then restart.

Install Grbl-Controller. apk file.

Enable Bluetooth, find ESP32_BT device and pair it.

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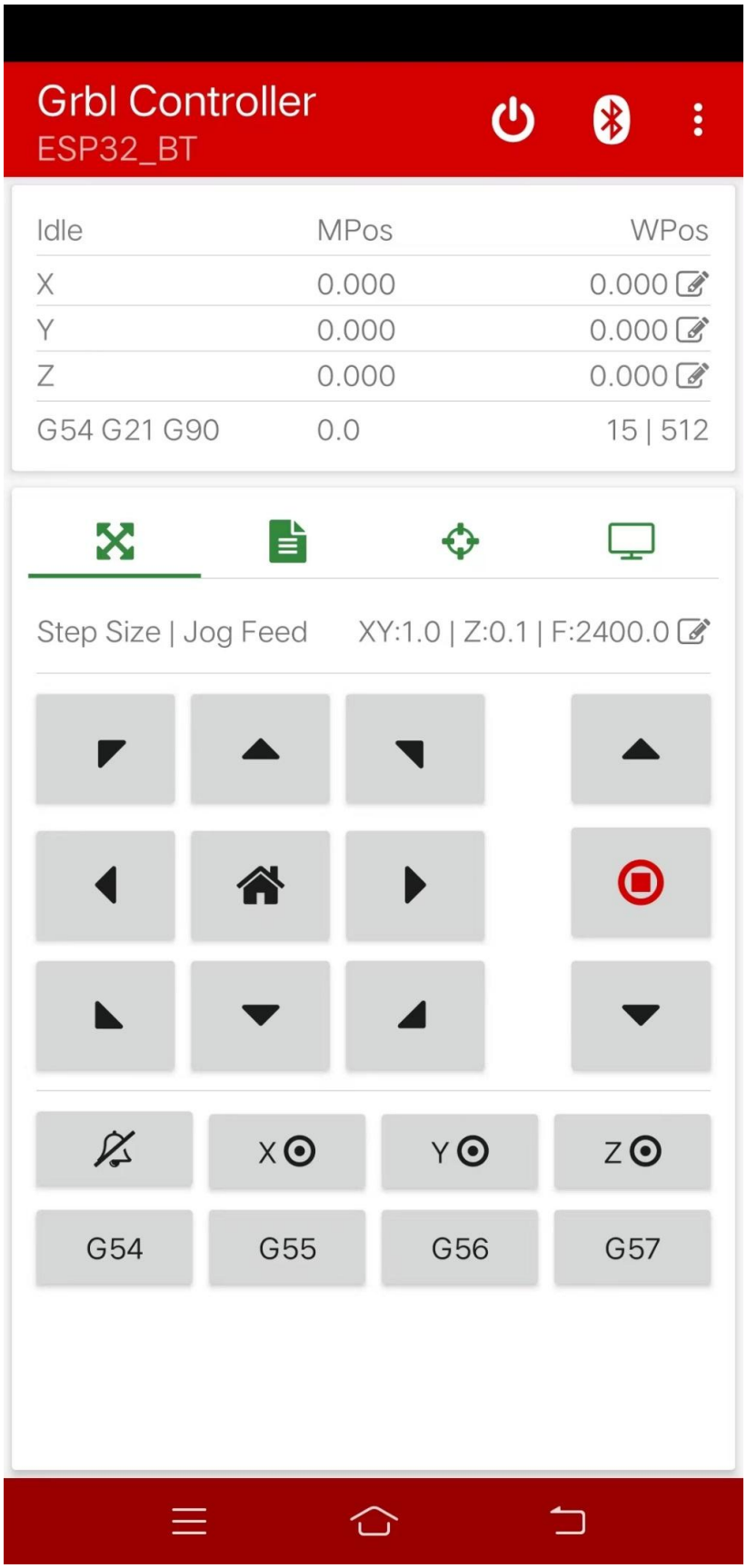
Open Grbl-Controller software and operate the control board on phone.