

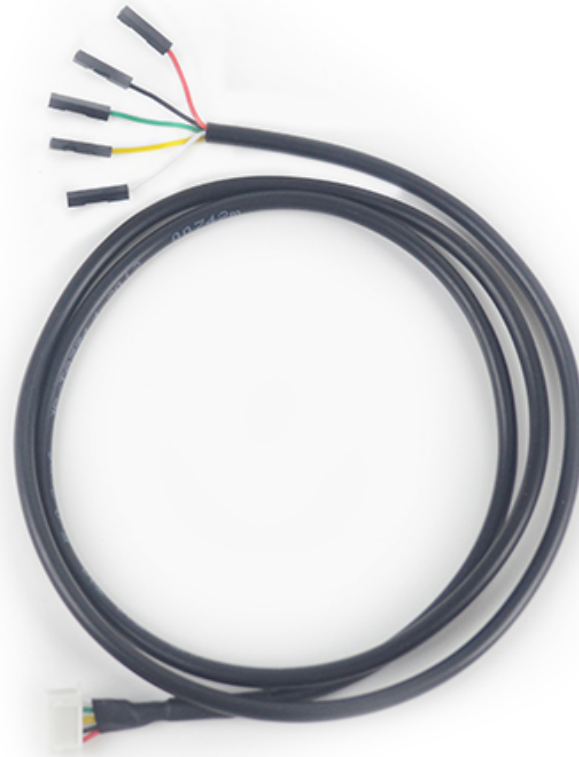
G-Sender Module GRBL Offline Controller Board

Powered by LEKN

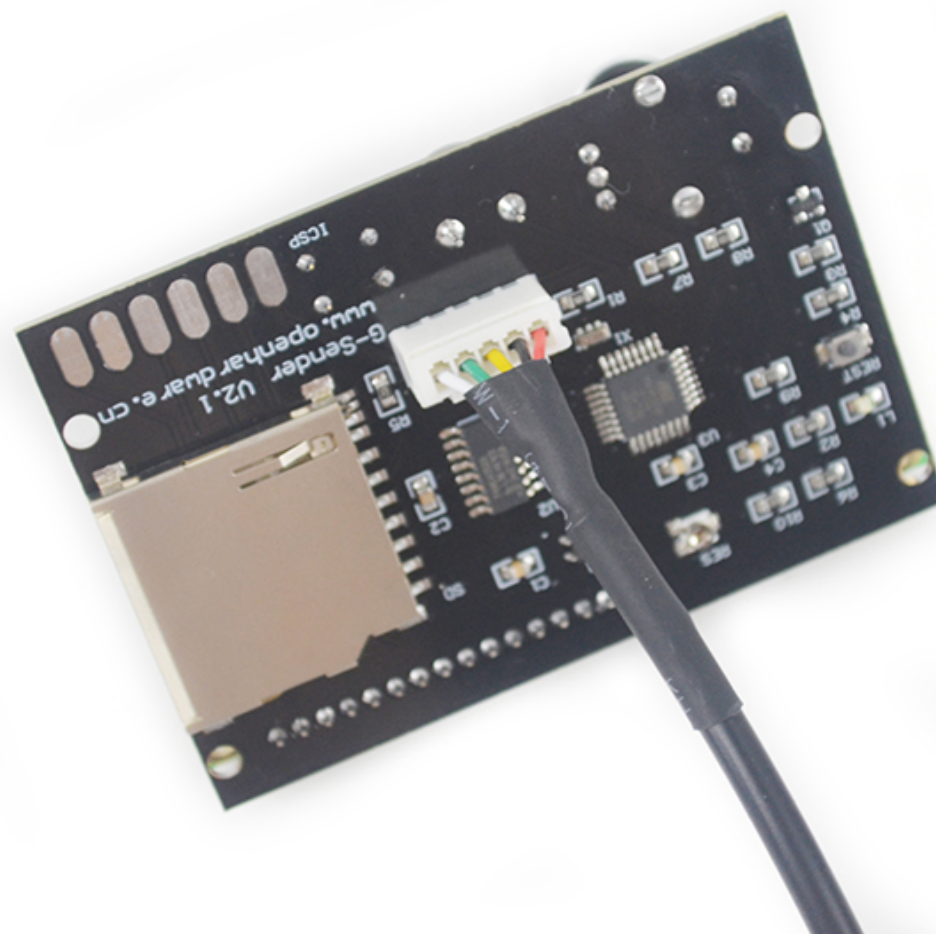
1.Wiring

G-Sender module use a 5P-cable. As shown:

red line:5V
black line:GND
green line:serial-RX
yellow line:serial-TX
white line:abort(stop)

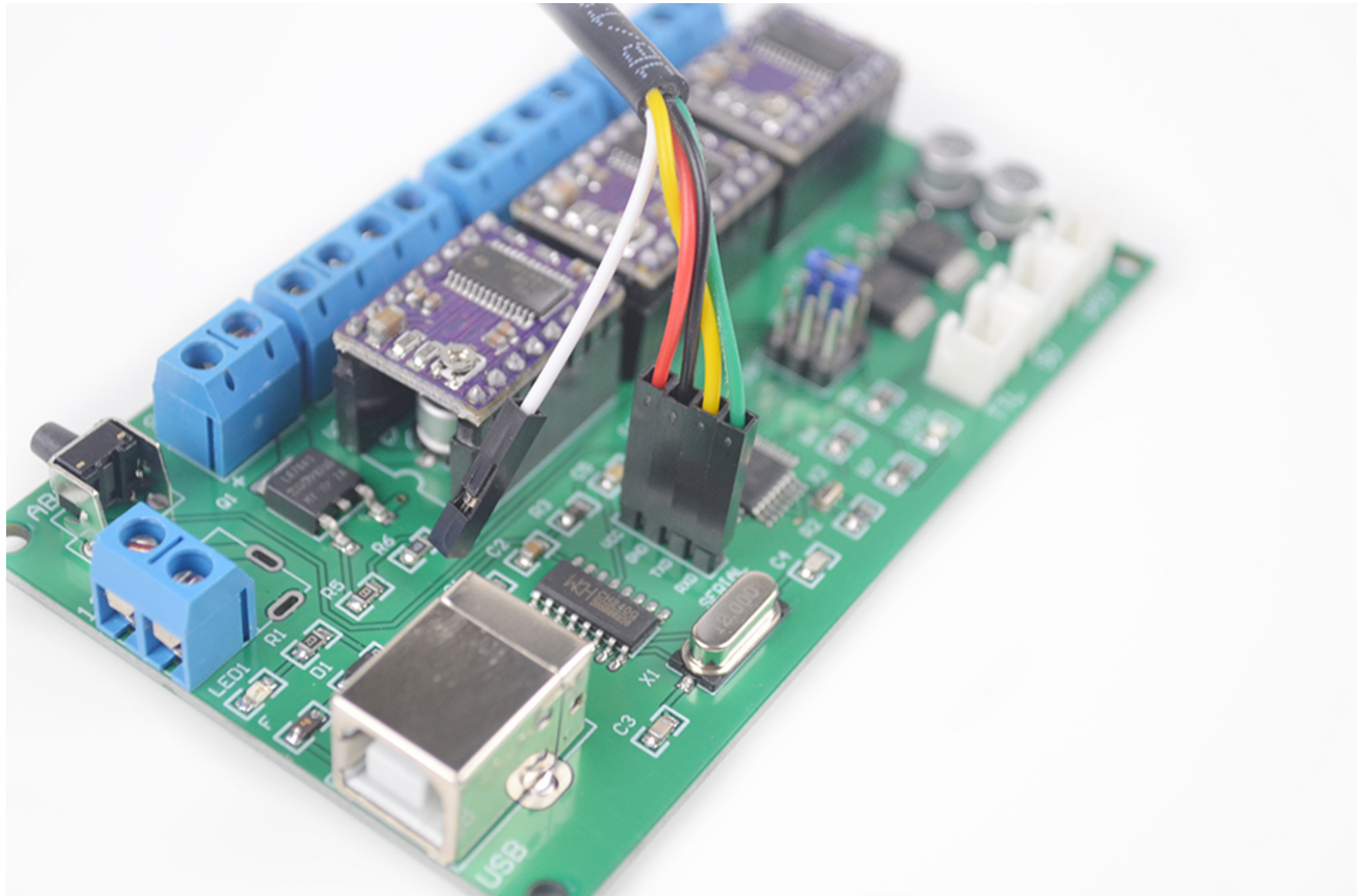


One end of wire is plugged into the module. As shown:

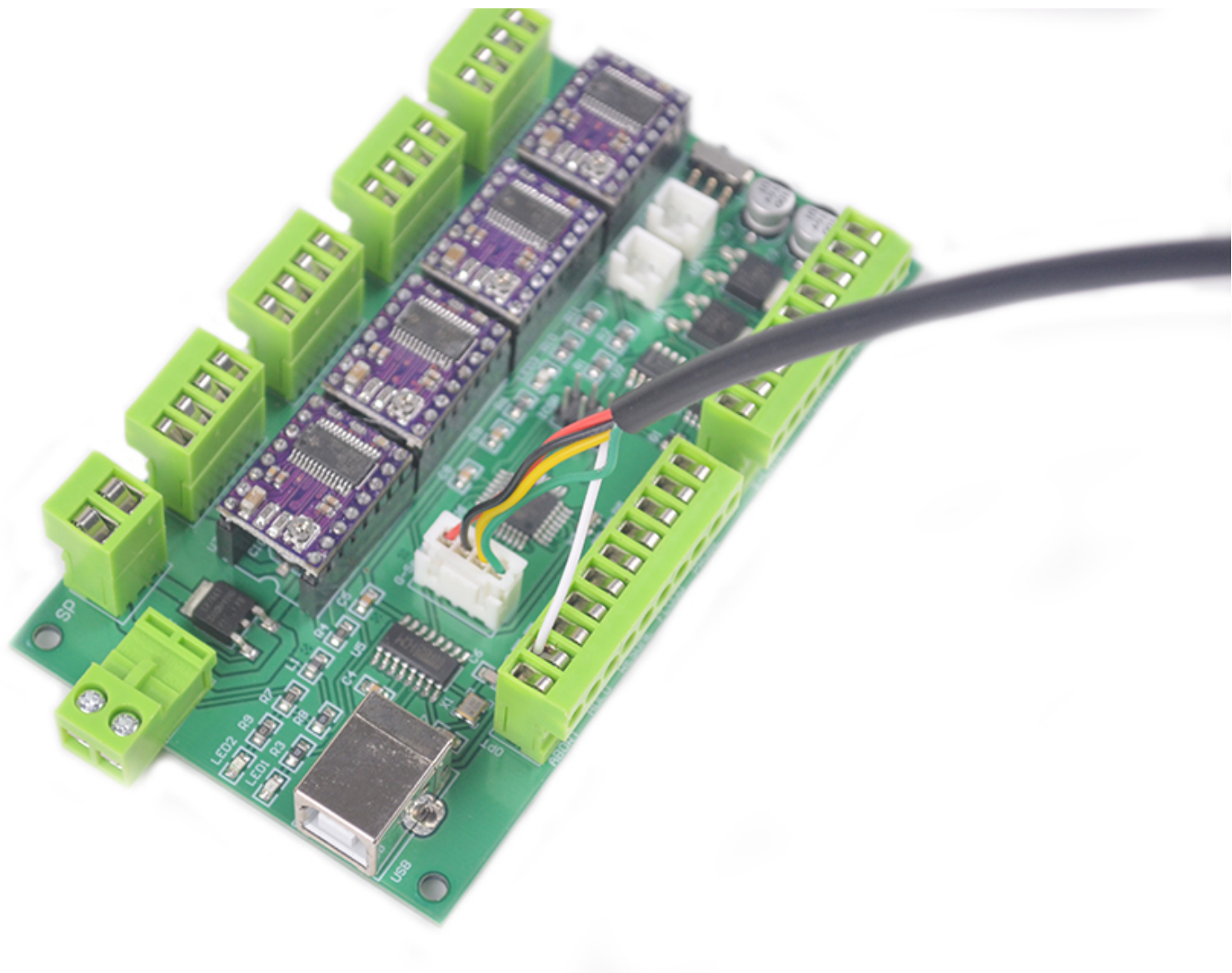


The other end is plugged into the corresponding interface of the control board.

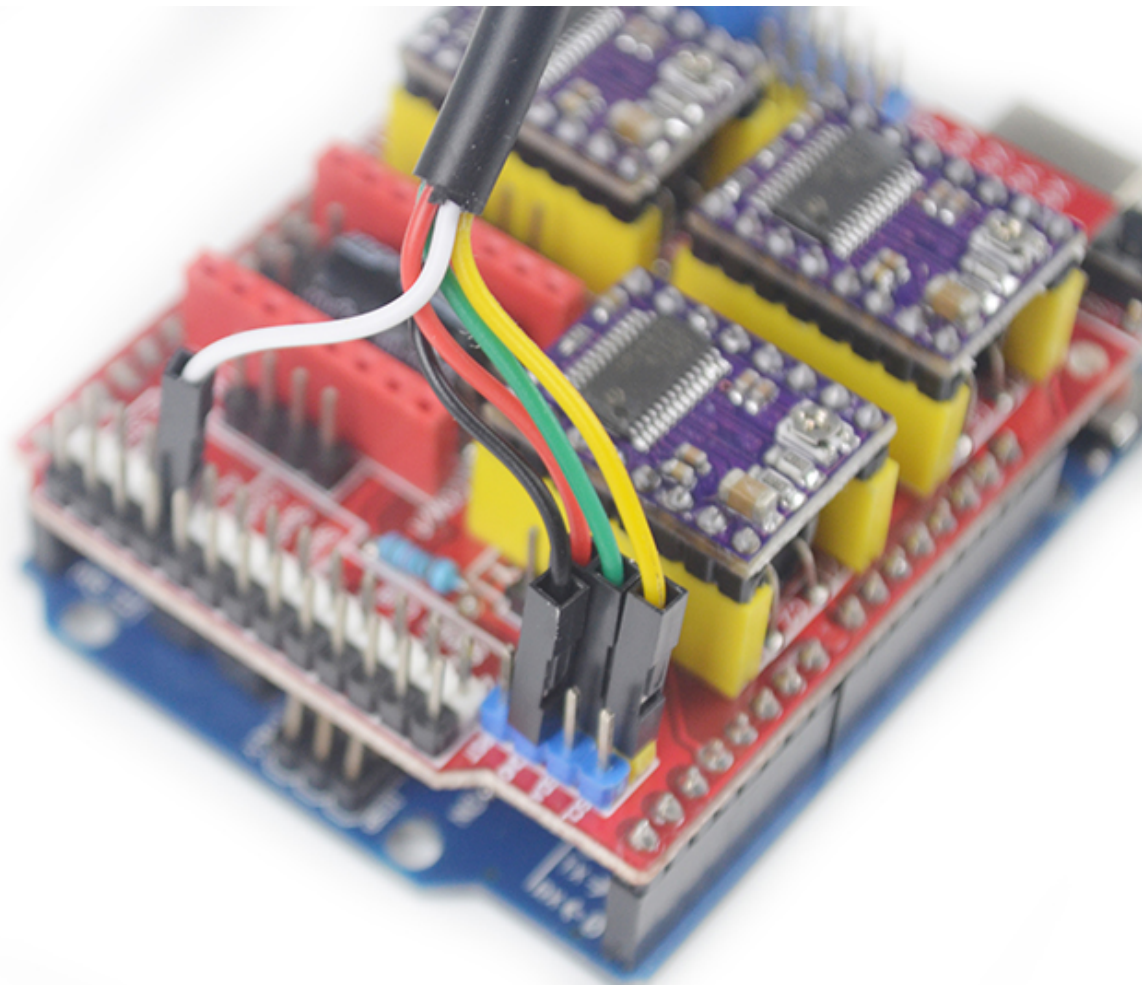
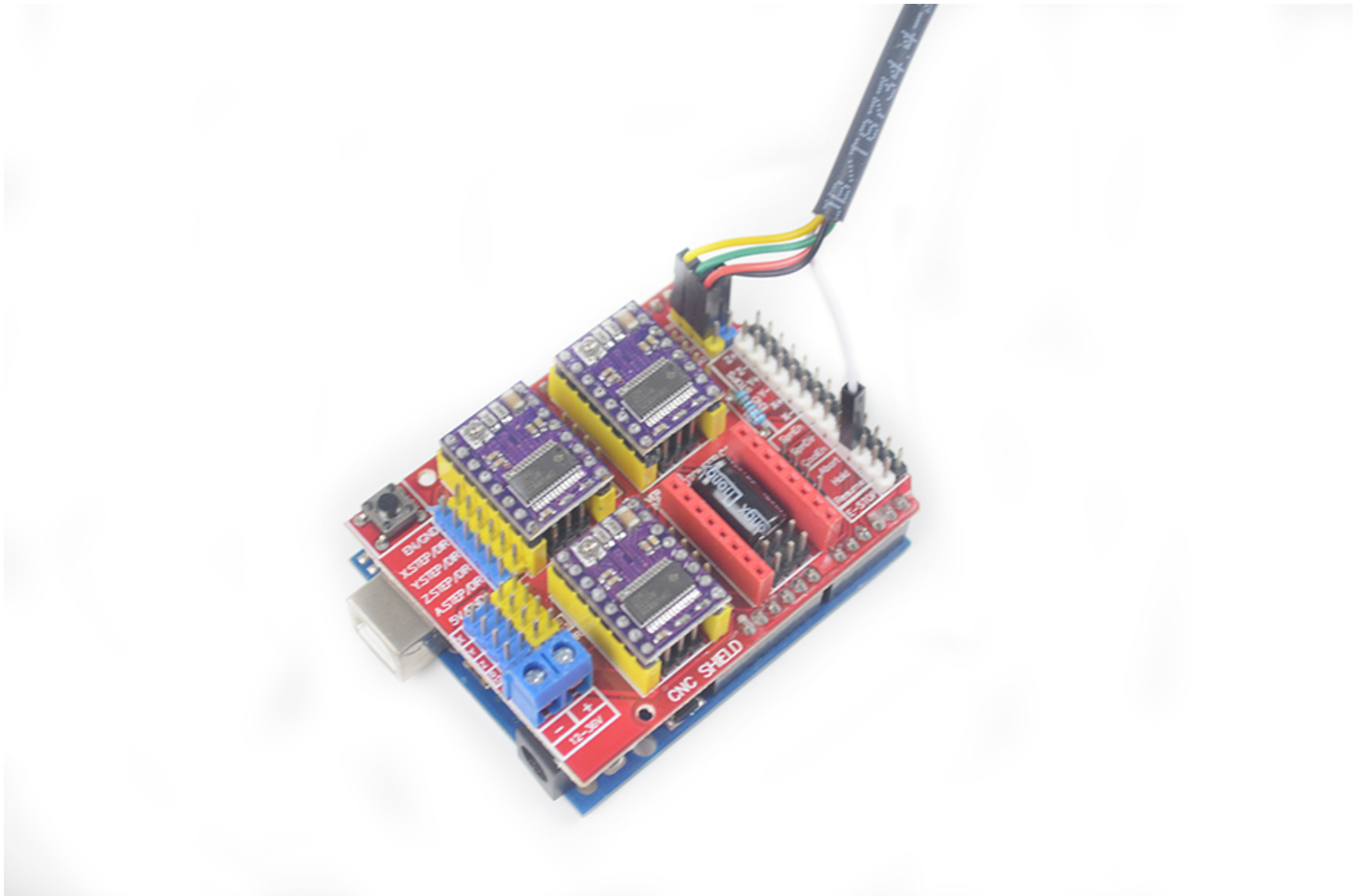
LEKN-C1 V2.3-2.4 control board wiring. White line does not need to be connected. As shown:



LEKN-C1 V2.5 control board wiring. White line connected to abort port. As shown:



Other types of control board, For example: cnc shield v3. Red line:5V,black line:GND, green line:serial-RX, yellow line:serial-TX white line:abort(stop). As shown:



2. Menu description

[1]Information menu

X Y Z Three axis coordinate position, P: The processing progress.



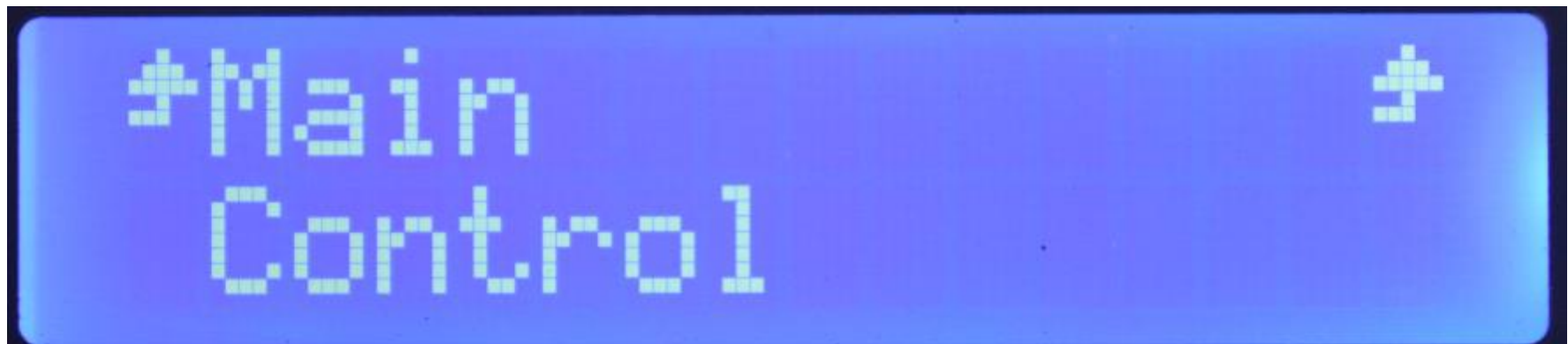
[2]main menu

Main (go back information menu)

Control menu (Send command to control engraving machine)

Setting menu (G-Sender module setting)

CNC From SD menu (Displays files on SD card)



[3] secondary menu

Control menu

Back : Back to the parent menu

Auto Home : homing (Equivalent \$H command , need enable grbl homing function)

Unlock GRBL : Kill alarm lock(Equivalent \$X command)

Move Axis : Control the movement of each axis

Zore Pos : Zero Position (Equivalent G92 X0 Y0 Z0 command)

Spindle Speed : Control spindle speed.

Set Origin : To have Grbl store that position. (Equivalent G28.1 command)

Go to Oring : Go to pre-defined positions (Equivalent G28 command)

Grbl Mode : Setting grbl mode (Spindle mode , Laser mode)



Setting menu

Back : Back to the parent menu

Baud Rate : Baud rate of the G-Sender module (support : 9600/19200/38400/57600/115200)

Buzzer : Keypad tone of the G-Sender module (Turned on by default, it can be turned off)

Menu Memory : Menu memory of the G-Sender module (Turned off by default, it can be turned on)



CNC From SD menu

Back : Back to the parent menu

Displays files on SD card (files in the folder are not displayed)



3. Directions for use

This Smart Controller contains a SD-Card reader, a rotary encoder and a LCD1602 display. You can easy connect it to your GRBL controller board using a 5P-cable

Rotate the encoder : controls the screen menu to move up and down

Press the encoder : enter menu

[1]grbl control board(**Homing is not enabled**) :

Step 1: Control-> Zore Pos

Step 2: CNC From SD-> Select the file you want to processing, and Press the encoder

[2]grbl control board(**Homing is enabled**) :

Step 1: Control-> Unlock GRBL

Step 2: Control-> Zore Pos

Step 3: CNC From SD-> Select the file you want to processing, and Press the encoder