Part1: How to use Reprap Firmware

First, download the firmware package on FLYmaker's github

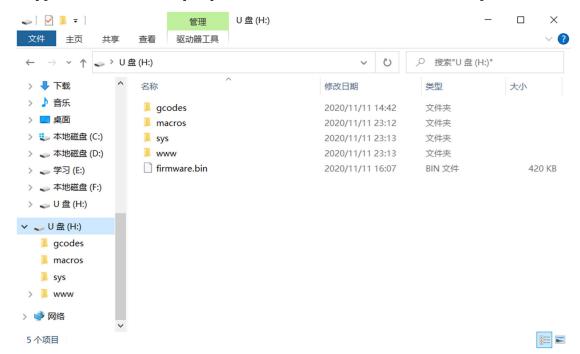
Download the firmware package for the corresponding motherboard

FLY-RRF-E3 https://github.com/FLYmaker/FLY-RRF-E3
FLY-CDY https://github.com/FLYmaker/FLYF407ZG
https://github.com/FLYmaker/FLYF407ZG

Further reading on LPC and STM32: https://github.com/gloomyandy/RepRapFirmware/wiki

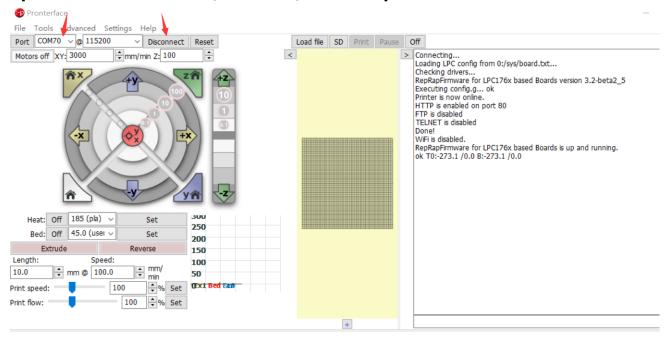
Download FLY's github file package for first-time use

1. Copy the files in the RepRap firmware folder to the root directory of the SD card

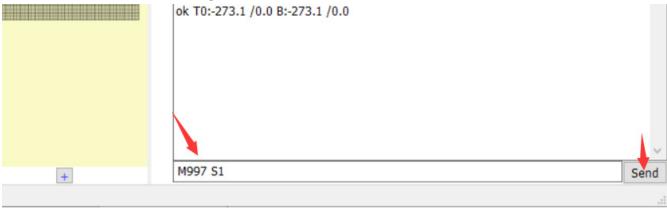


- 2. Insert the SD card into the motherboard
- 3. Restart/Reboot/Re-power the motherboard
- 4. Plug all the pins around the wifi module as shown in the figure:

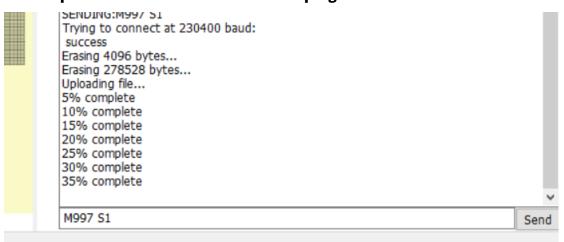
5. Open the terminal software(Pronteface), select the port and click connect



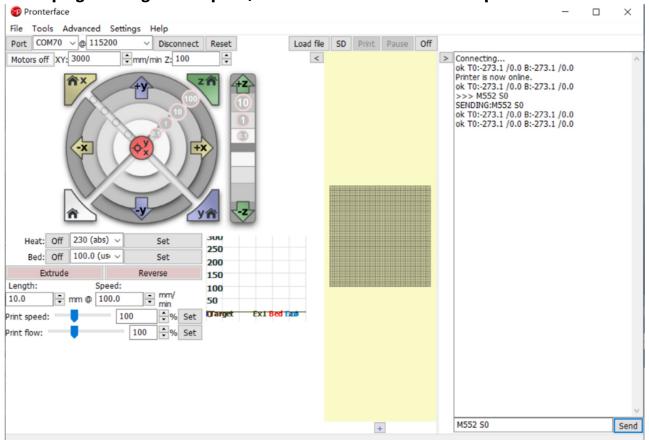
6. Enter M997 S1 in the lower right corner, and then click send



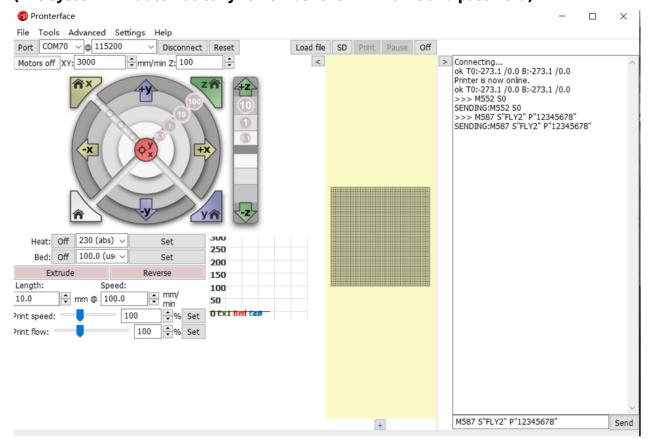
7. This step is to burn the motherboard wifi program



8. After programming is complete, send M552 S0 command to put wifi in idle mode



9. Send M587 S"WIFI name" P"WIFI password" command (The system will automatically remember the WIFI name and password)



Important Note:

If your wifi password contains lowercase, please add (') before the letter to configure according to the following example:

Example 1

WIFI name: FLY2

WIFI password: fly12345

Send as:

M587 S"FLY2" P"'f'l'y12345"

Example 2

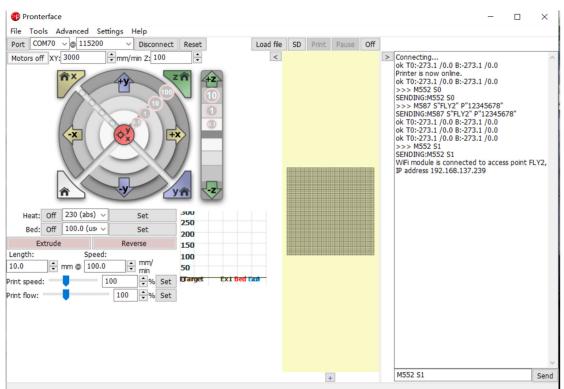
WIFI name: FLY2

WIFI password: 12345678

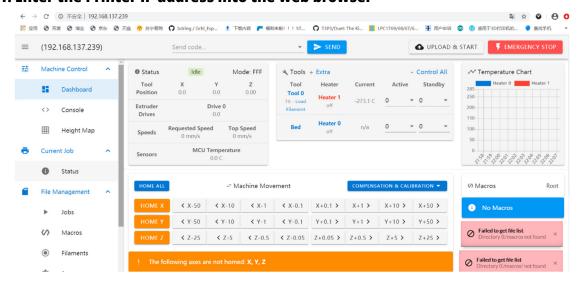
Send as:

M587 S"FLY2" P"12345678"

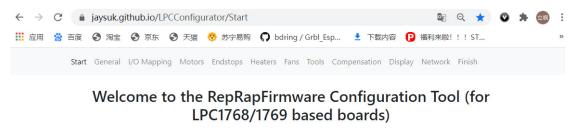
10. send M552 S1, to turn on the network connection



11. Enter the Printer IP address into the web browser



Part2: Configure the machine



Please follow this wizard to obtain an individual configuration bundle for your printer

If you are using a printer that was originally shipped with RepRapFirmware, you can select a predefined template here:

You can create your own individual configuration by creating a new one from scratch or by loading an existing JSON template:

Custom configuration

Use existing configuration

Note: If you encounter problems, please report your problems on GitHub.

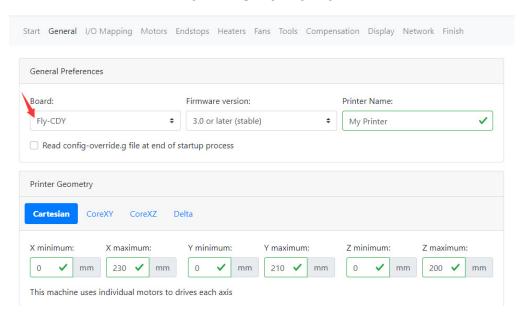
Some configuration options may not be available yet. In this case please refer to the Duet3D wiki.

This web app is fully open-source and licensed under the terms of the GPLv3. Version 3.1.4-LPC-6



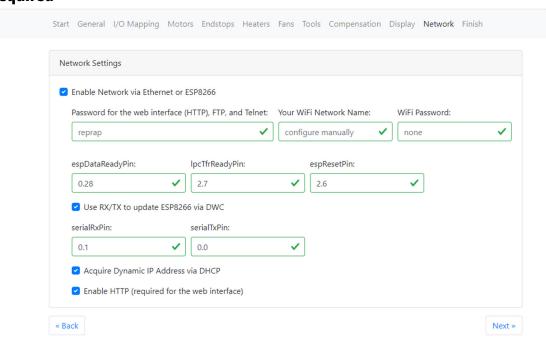
« Back

1. Choose motherboard: (Fly-f407zg, Fly-cdy, Fly-e3)

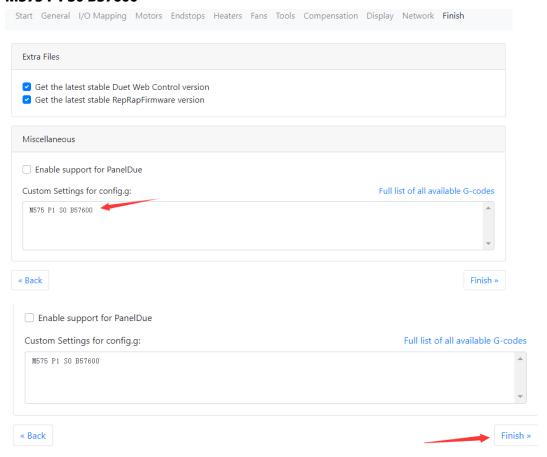


Important Note:

Other settings are based on your own machine and network configuration. Just edit the values in the green box as shown in the diagrams, and other configurations are not required



2. If you have a FLY touch screen, put this command in Custom Settings for config.g: M575 P1 S0 B57600



3. Download the generated file:

Put the RepRapFirmware files in the /sys directory and extract Duet Web Control bundle to the /www directory of your SD card. If you are using Duet Web Control, upload those files on the Settings page.

• Duet Web Control 3.1.1

The following system files will be generated:

- bed.g
- board.txt
- config.g
- homeall.g
- homex.g
- .
- homey.g
- homez.g
- pause.g
- resume.g
- sleep.g
- stop.g
- tfree0.gtpre0.g
- tpost0.g

If you are using Duet Web Control, you can upload the ZIP file(s) <u>without extracting</u> on the Settings page. Otherwise you can extract the contents of this configuration bundle directly to the root of your SD card.

See this page for further information about the purpose of these files.

■ Download JSON template

▲ Download configuration bundle as ZIP file

4. Extract downloaded file



5. Copy the extracted sys folder and Replace the sys folder of the SD card on the motherboard.

Congratulations!

Your printer is now fully configured!