

# RepRapFirmware for LPC and STM32

Overview

Release Notes

General

LPC Boards

Fly/Mellow Mainboards

► Fly-407ZG

► Fly-CDYv2

► Fly-CDYv3

► Fly-E3

► Fly-E3-v2

► Fly-E3-Pro

► Fly-E3-Pro-v2

► Fly-E3-Pro-v3

► Fly-E3-Ultra and Ultra-Max H723

► Fly-MMU V1.0 H723

► Fly-ProX10 H723

► Fly-Super5Pro H723

▼ Fly-Super8

► RRF 3.5.0 and above

▼ RRF 3.4.6 and below

[Fly-Super8 General Information \(fly\\_super8\\_general.html\)](#)

[Hardware Revisions \(fly\\_super8\\_hardware\\_revisions.html\)](#)

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[Connecting a 12864 Screen \(fly\\_super8\\_screen\\_12864.html\)](#)

[Connecting a BLTouch or BTT MicroProbe \(fly\\_super8\\_bltouch.html\)](#)

[Connecting an Accelerometer \(fly\\_super8\\_accelerometer.html\)](#)

[Input Voltage Monitoring \(fly\\_super8\\_voltage.html\)](#)

[Connecting a BTT-MOT-EXP \(fly\\_super8\\_btt\\_mot\\_exp.html\)](#)

[Pin Names \(fly\\_super8\\_pins.html\)](#)

► Fly-Super8Pro H723

► Fly-Super8Pro H743

BTT Mainboards

LDO Mainboards

STM32F4 + Integrated SBC Boards

CAN-FD Toolboards

Consumer Printers

Screens

Adapters

Addons

Printer Specific Guides

# Fly-Super8 General Information

**Summary:** General information regarding the Fly-Super8

## Overview

This page covers any general information for the Fly-Super8 board.

It is currently available through AliExpress .

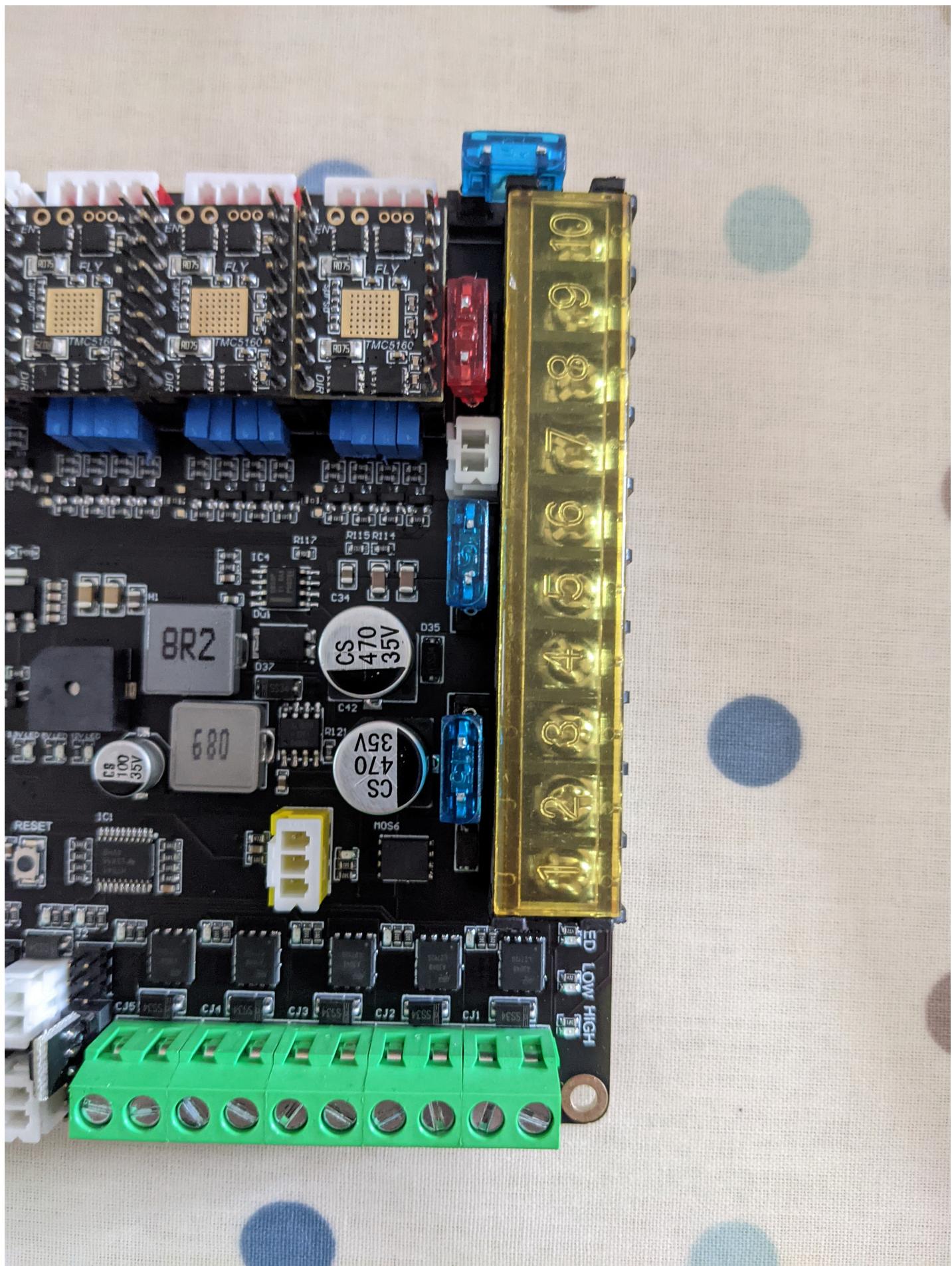
### Board.txt Name

The board name in board.txt is **fly\_super8**.

### Board Fuses

The board is supplied without the fuses installed.

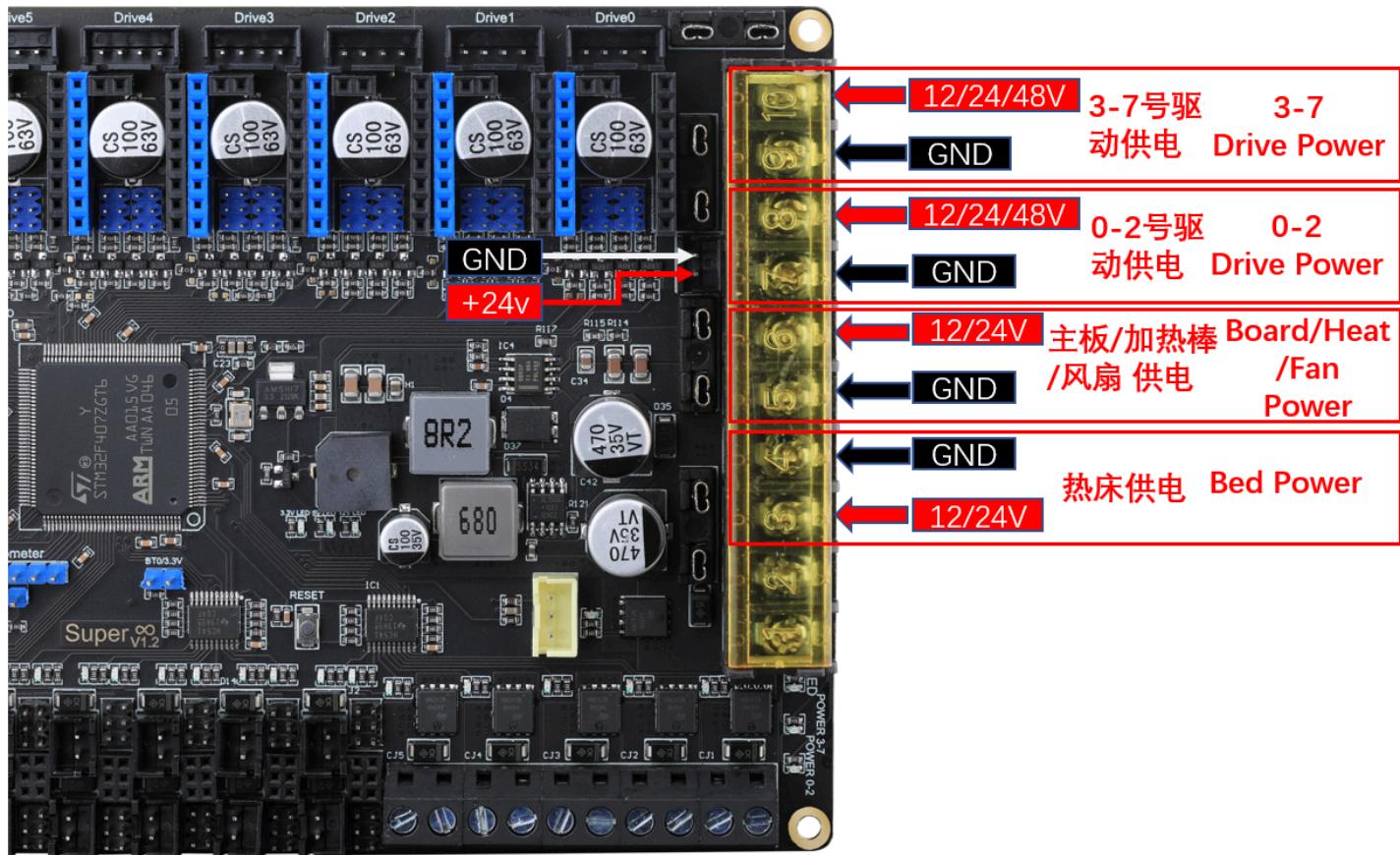
It is supplied with different fuses than the listing on AliExpress. The fuses should be installed as shown below.



## Fly-Super8 Fuses

## Board Power

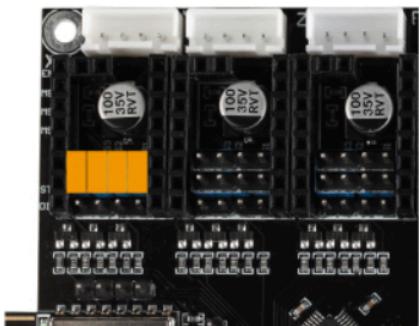
The Fly-Super8 has 4 lots of power inputs. The first one powers drivers 0 to 2, the second one powers drivers 3 to 7, the third one powers the boards, heaters and fans and the last one powers the bed.



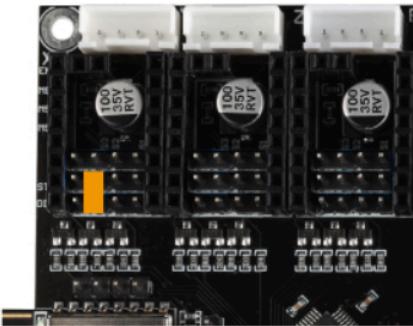
## Fly-Super8 Power Connections

## Driver Jumpers

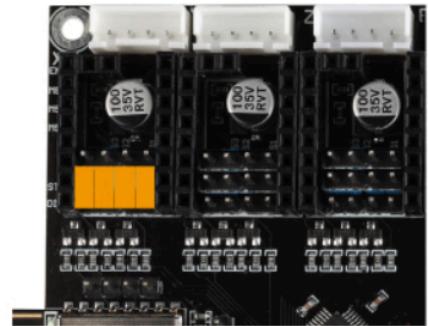
The jumpers should be installed as below. “Common Interpolation” should be used for standalone drivers. “SPI mode Interpolation” is supported for TMC5160 drivers. “UART mode Interpolation” should be used when using smart drivers (i.e. TMC2208, TMC2209, TMC2225 and TMC2226)



•Normal jumper mode



•UART mode



•SPI mode

#### *Fly-Super Driver Jumper Locations*

### Driver Diag Pin

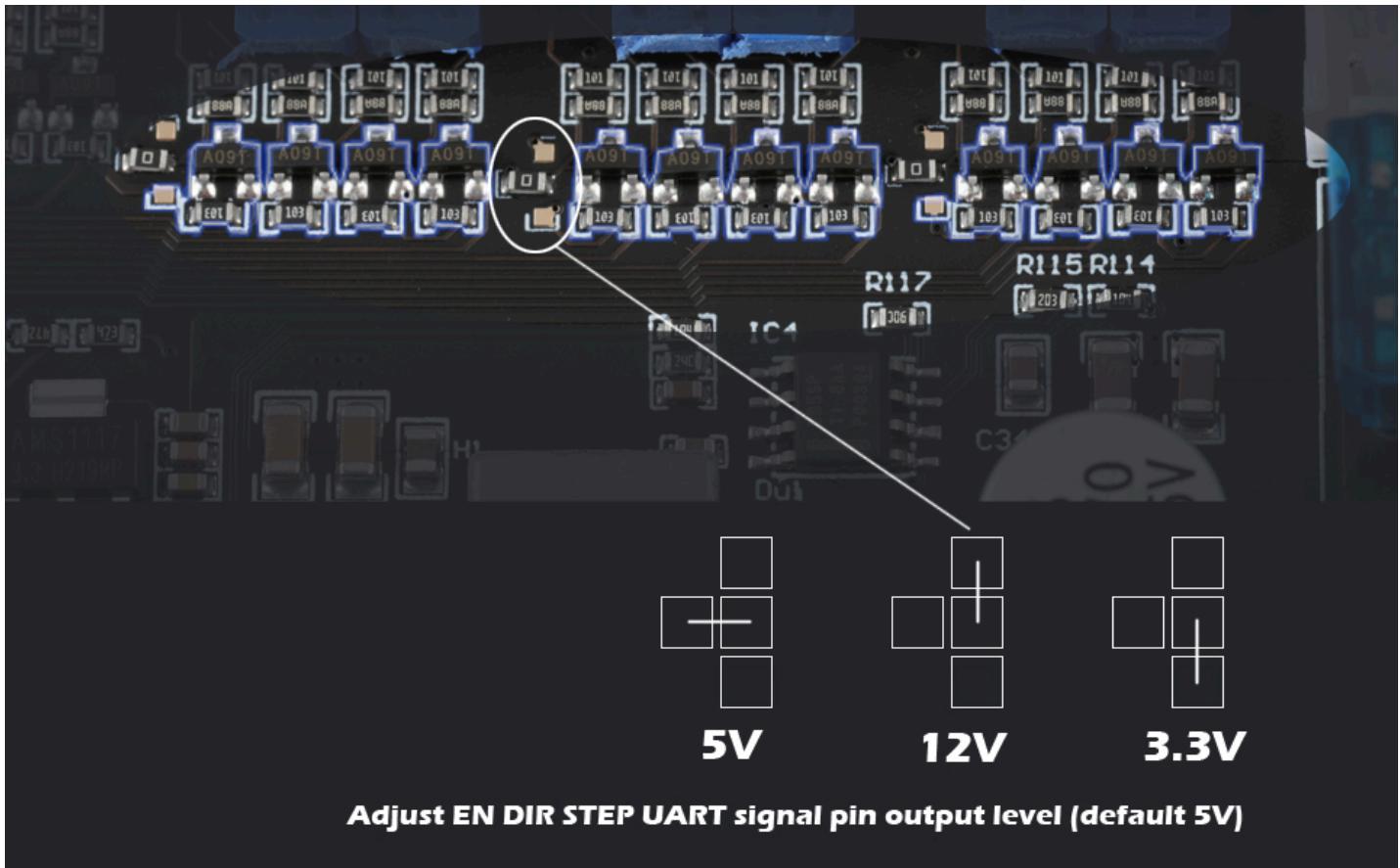
The driver diag pin is used for sensorless homing and stall detection.

The Fly-Super8 **does not** have a way of disabling the diag pin as it is designed to be used with Fly-2209 drivers ↗ which have a switch on the underside of them for disabling the diag pin.

If you plan on using endstops rather than sensorless homing and do not have the Fly-2209 drivers, you need to bend or remove the diag pin.

### Driver Signal Voltage

The output voltage of each driver EN, STEP and DIR can be configured to either 3.3v, 5v or 12v. The default is 5v.



*Fly-Super8 Driver Signal Voltage*

## Fan Mosfets

The Fly-Super8 has a unique feature in that the fan mosfets are replaceable. Each mosfet (VS3622e) controls two of the fan outputs. The orientation that the fan mostfet is plugged into the board doesn't matter.

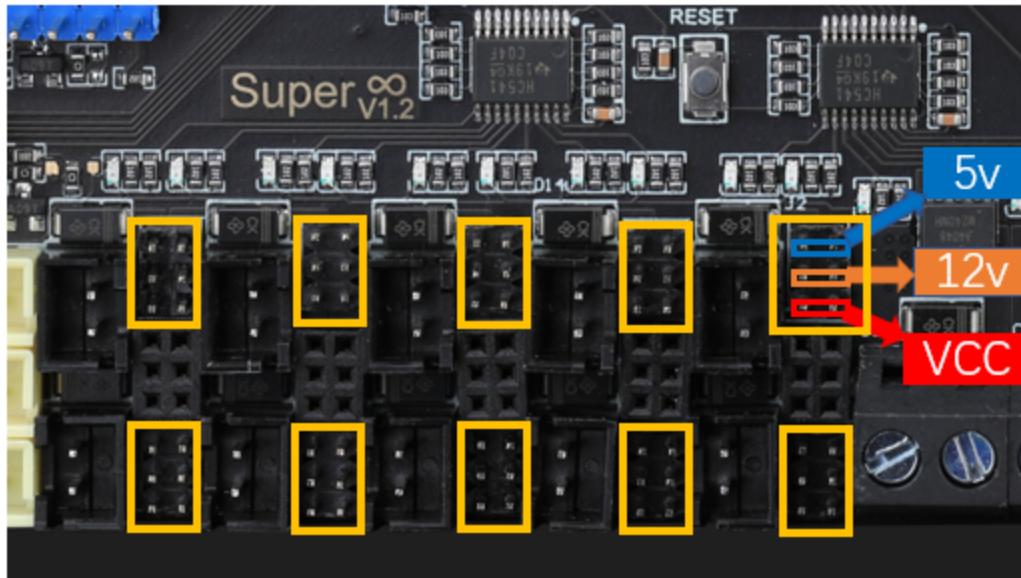


Fly-Super8 Fan Mosfets

## Fan Voltage

The fan voltage can be set using jumpers to either 5v, 12v and Vin.

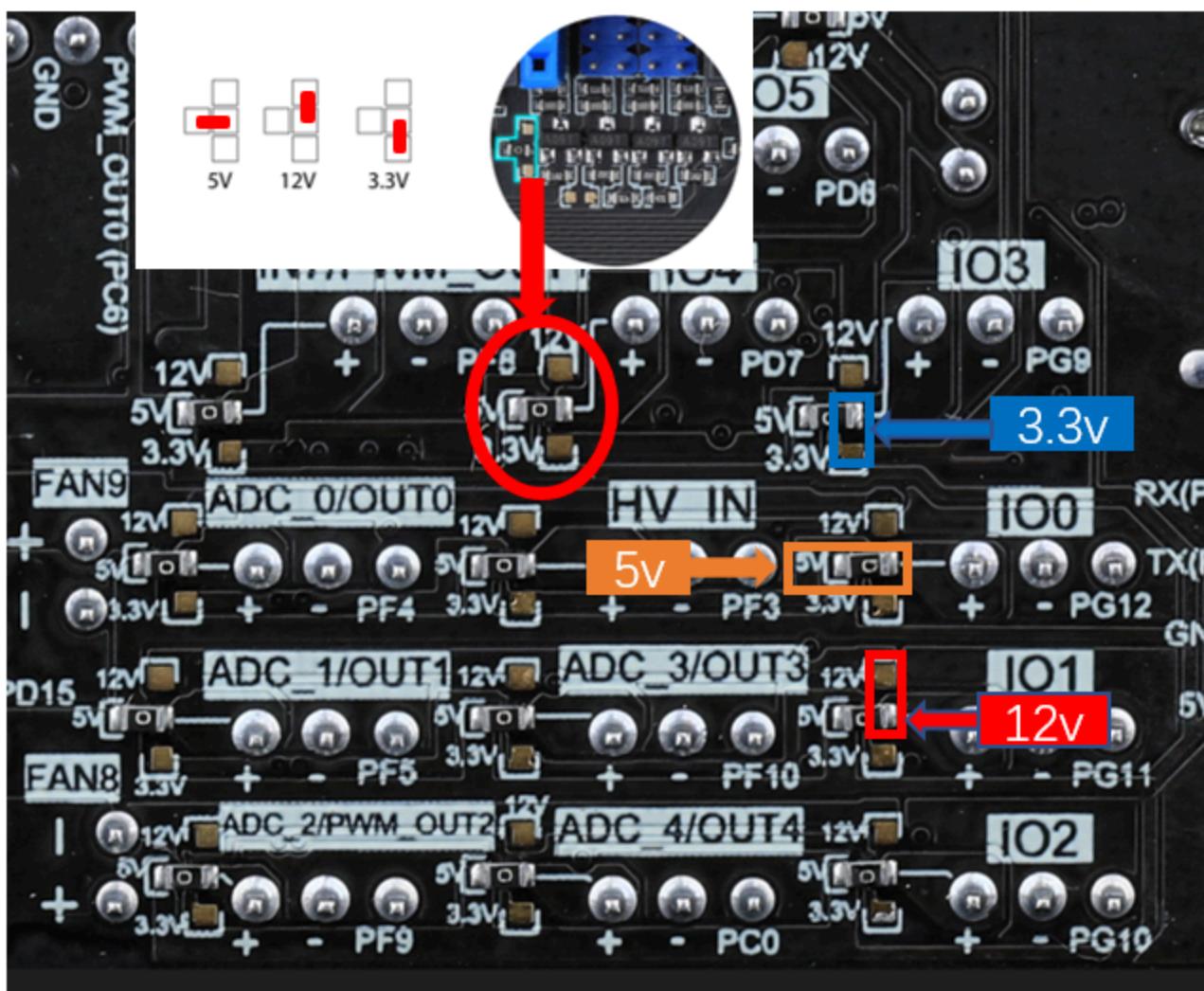
Set them as shown below.



*Fly-Super8 Fan Voltage*

## IO Output Voltage

The IO output voltage can be set to either 3.3v, 5v or 12v. The default is 5v.  
Set them as shown below.



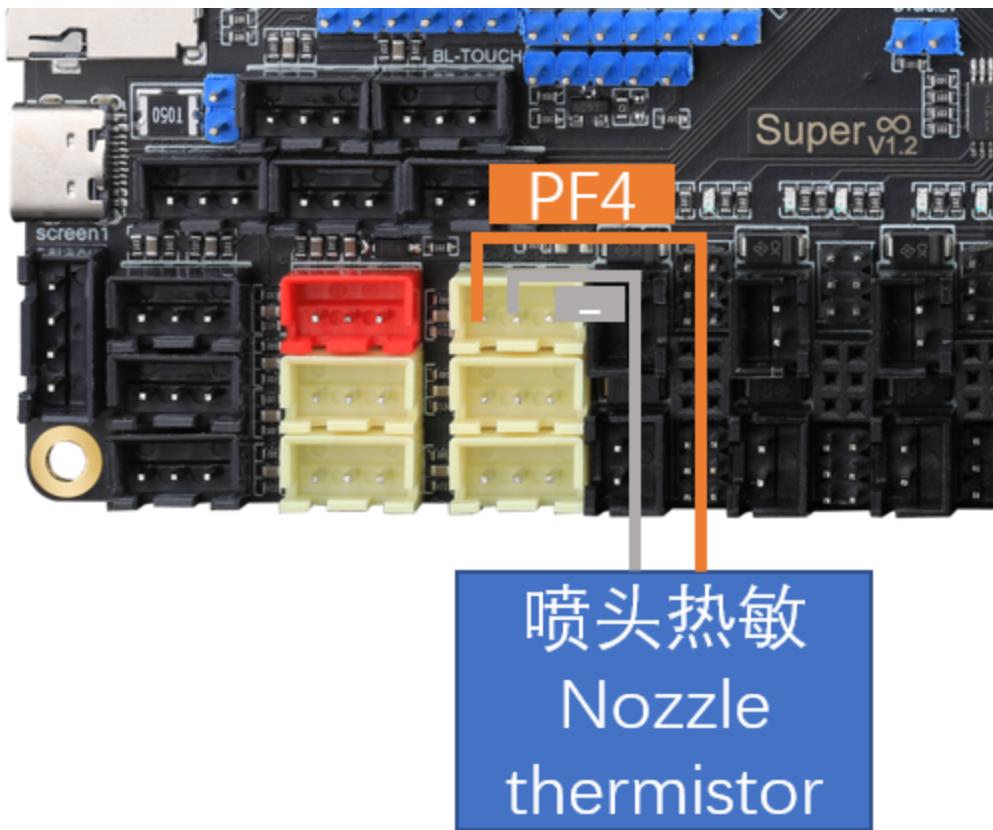
Fly-Super8 IO Voltage

## Maximum HV Input voltage

The three HV drivers have been tested with 48v.

## Thermistor Connection

Thermistors should use the ADC inputs. The thermistors should be connected between ground and the signal pin.



*Fly-Super8 Hotend Thermistors*



## *Fly-Super8 Bed Thermistors*

### Initial Installation

The board that you will receive doesn't have any firmware installed so when plugged into a computer, the board will show as an unidentified device. Follow the WiFi instructions ([fly\\_super8\\_connected\\_wifi.html](#)).

#### Tags:

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