

MELLOW FLY SUPER 8 PRO

CPU: latest edition **STM32H723ZGT6** - 32-bit @ 550 MHZ

Firmware: Reprap / Klipper / Marlin

Mainboard input voltage: 12v/24v - Logic voltage: 3.3v

Network support: ESP32

PC communication interface: usb / wifi

Wifi module: Expandable wifi module (Optional)

WIFI transmission: 1.6m/s (using RRF firmware)

Display: Serial touch screen, 12864LCD, 2004LCD, FLY 4.3/7 .0

Expand interface: CAN, 3d touch, UART, PT100, K-type thermocouple

Extruder interface: 5

Drive interface: 8 (2 separate banks of drivers. 0 to 2 and 3 to 7)

Drive voltage: 12v / 48v

Motor drive: A4988, LV8729, DRV8225, TMC2208/2209/5160 etc...

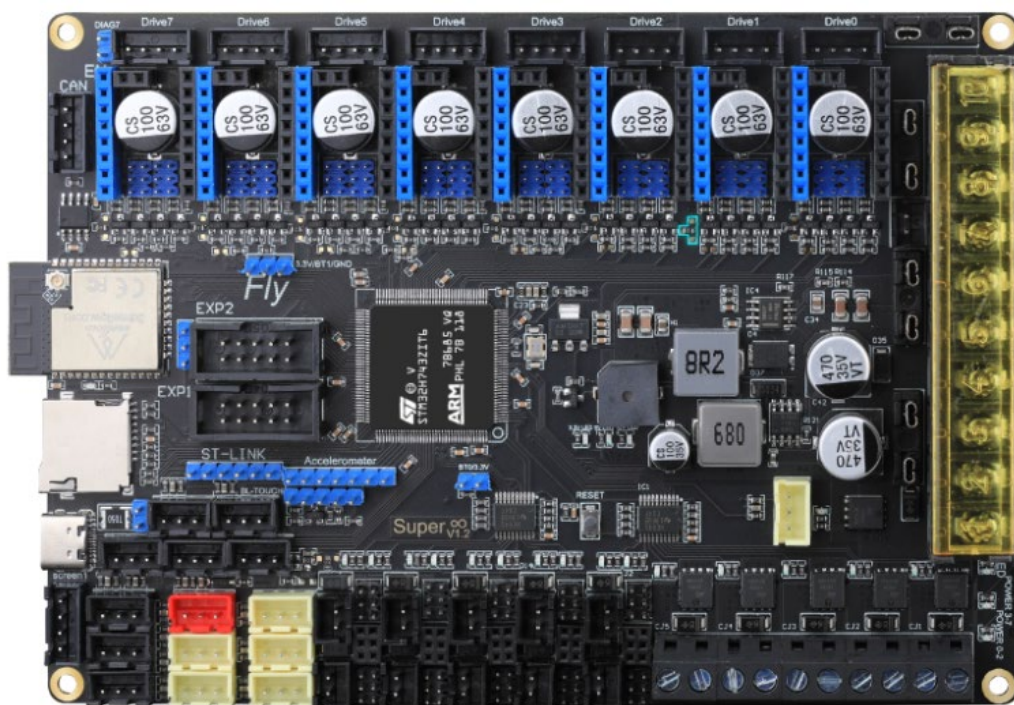
Driving operation mode support: TMC, uart / spi

Heating interface: HB, HE0, HE1, HE2, HE3, HE4

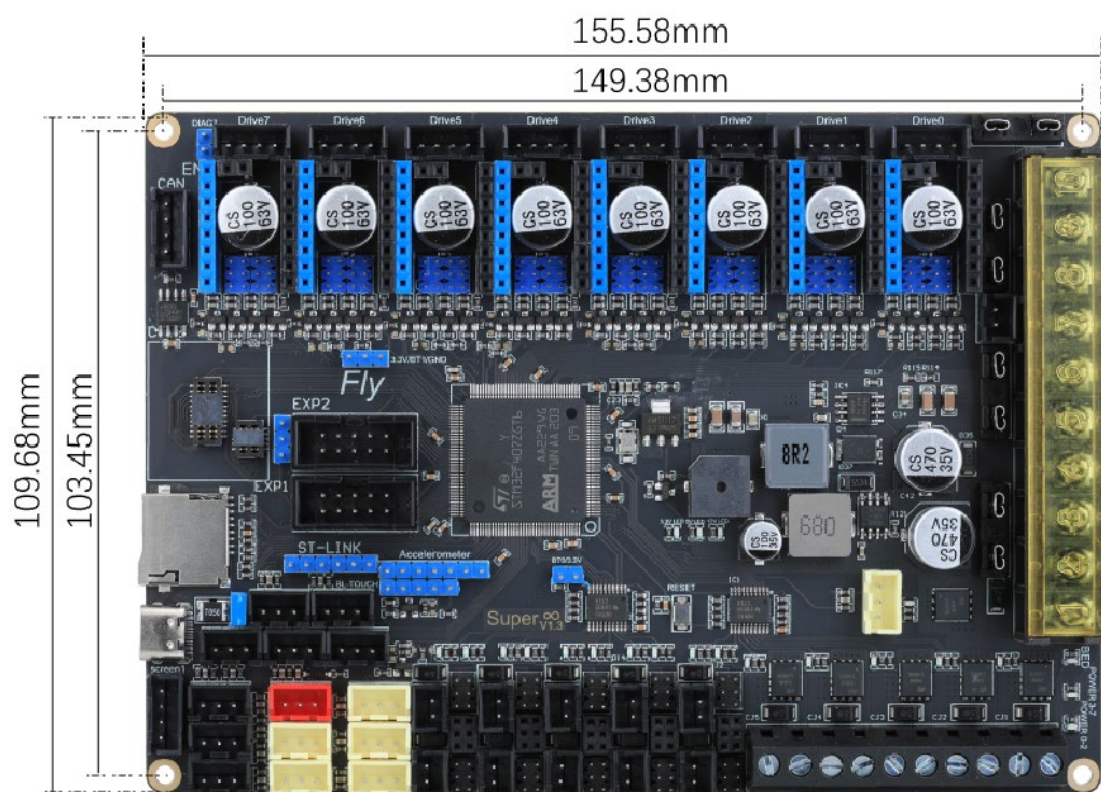
Maximum output current of hotbed port: (24v) **15A**

PWM fan interface: 10 (FAN0; FAN1; FAN2; etc...) – adjustable 5v; 12v; 24v

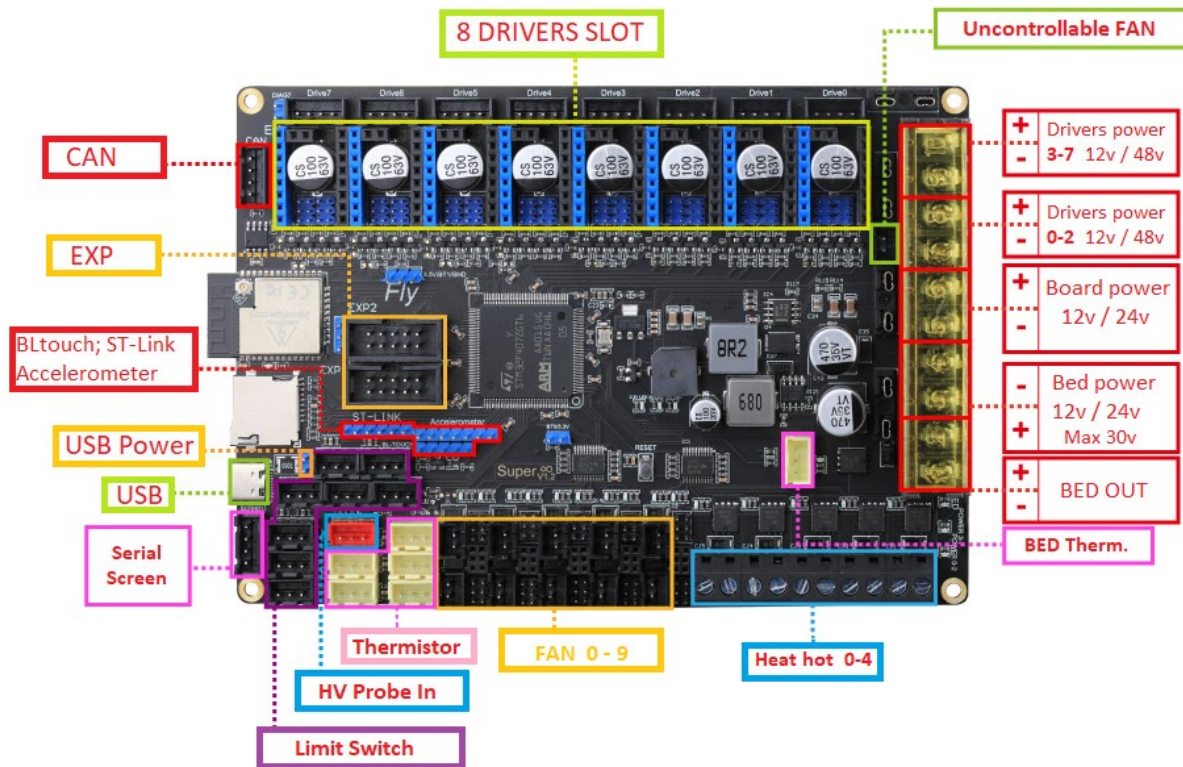
Maximum output current of fan interface: **1A**



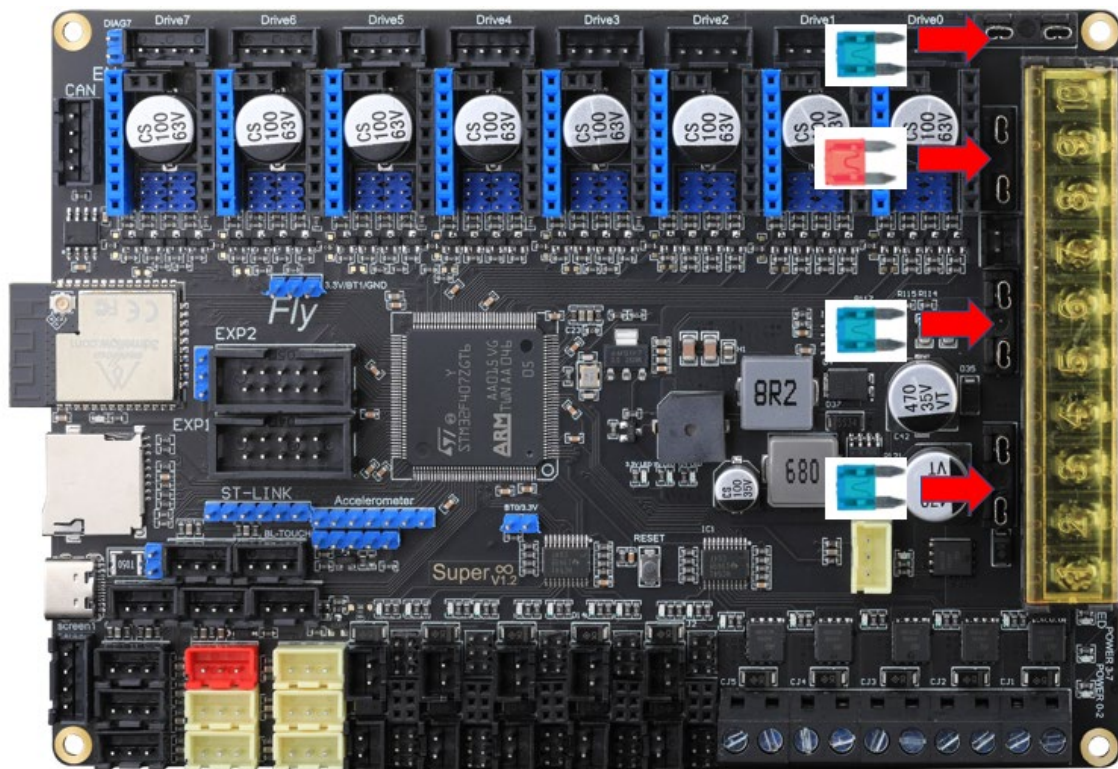
Dimensions



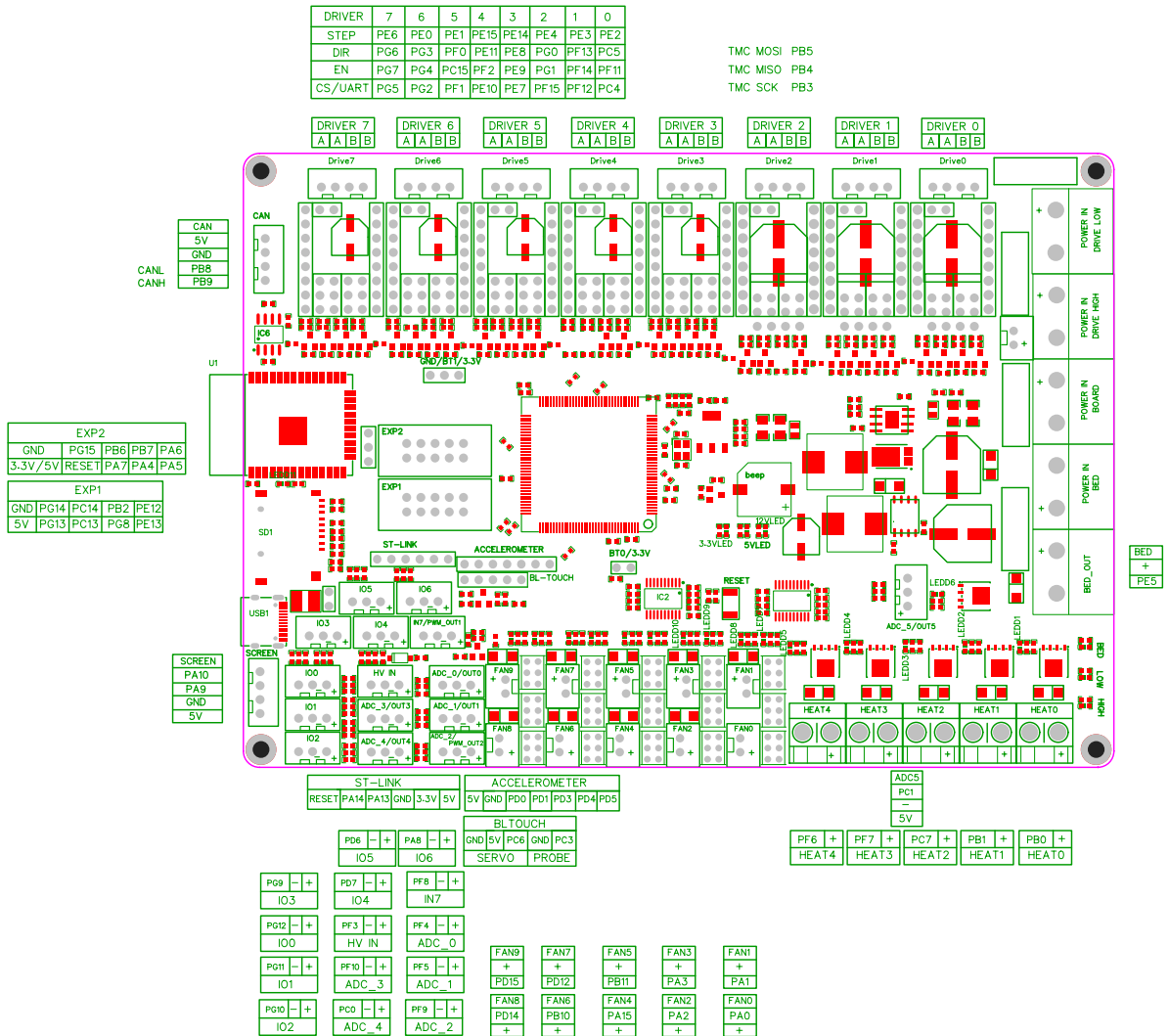
Interface



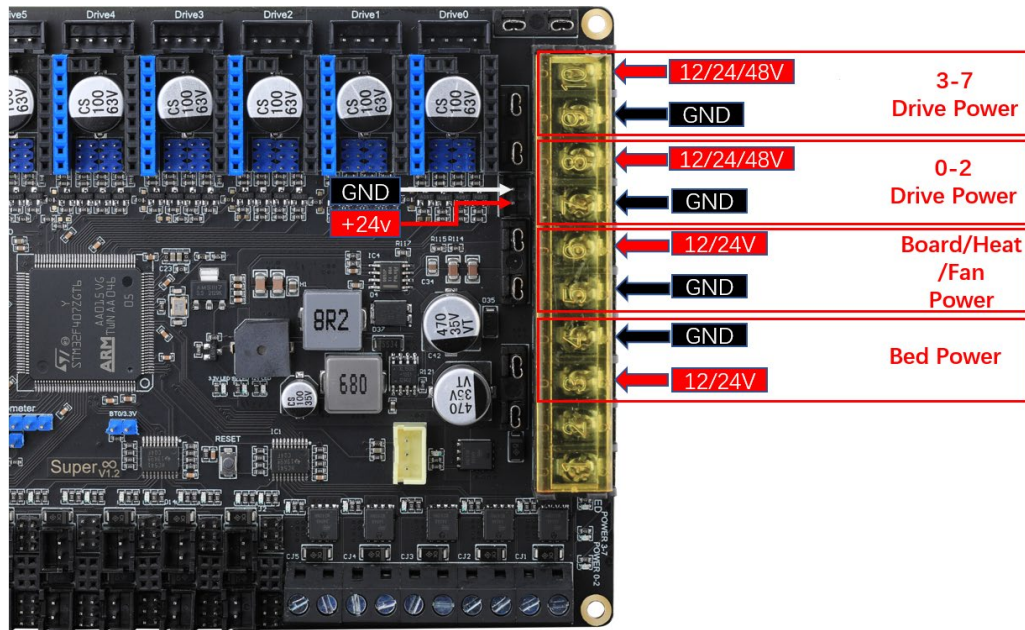
FUSE



PINS DIAGRAMME



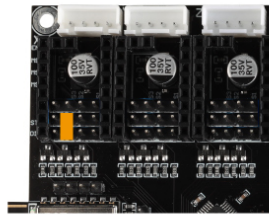
POWER



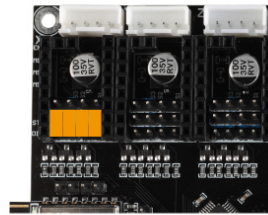
DRIVERS JUMPER MODE



• Normal jumper mode



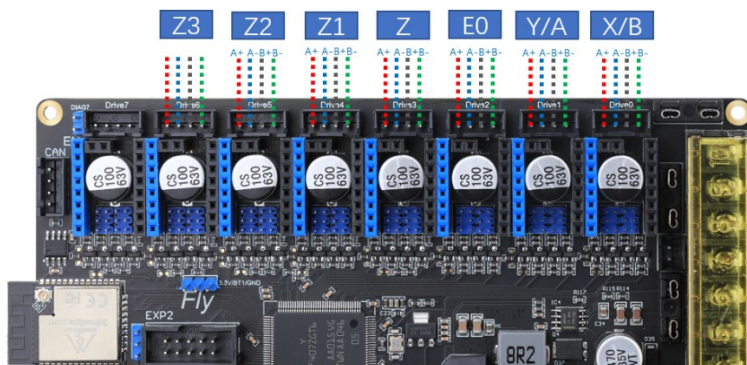
• UART mode



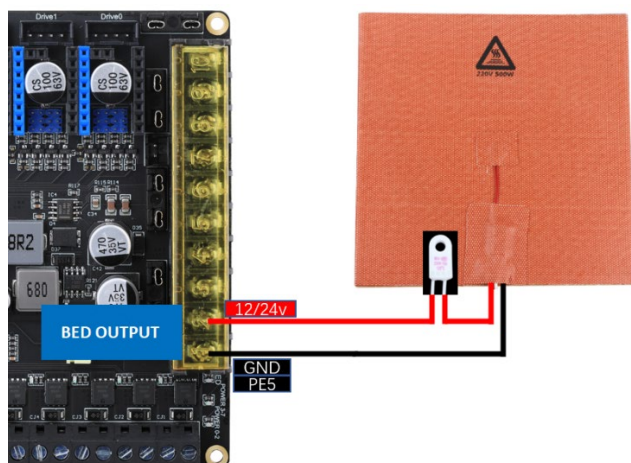
• SPI mode

UART: The driver supporting UART communication can set the current size and mute/anti shake mode of the driver through UART

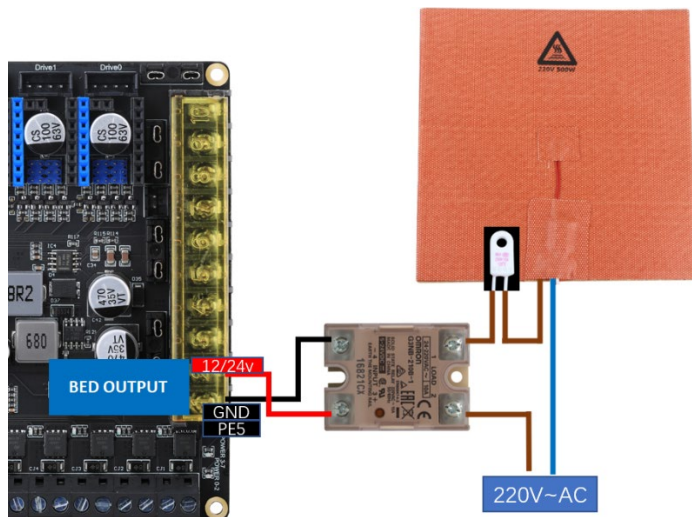
MOTORS PINS



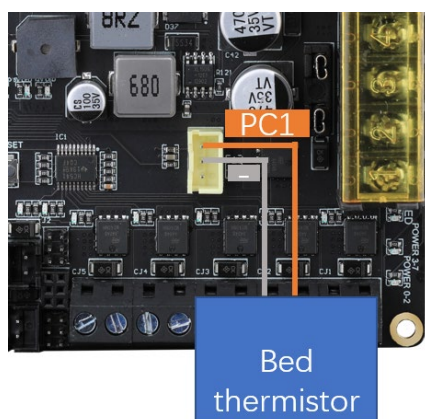
DC HEATER BED CONNECT



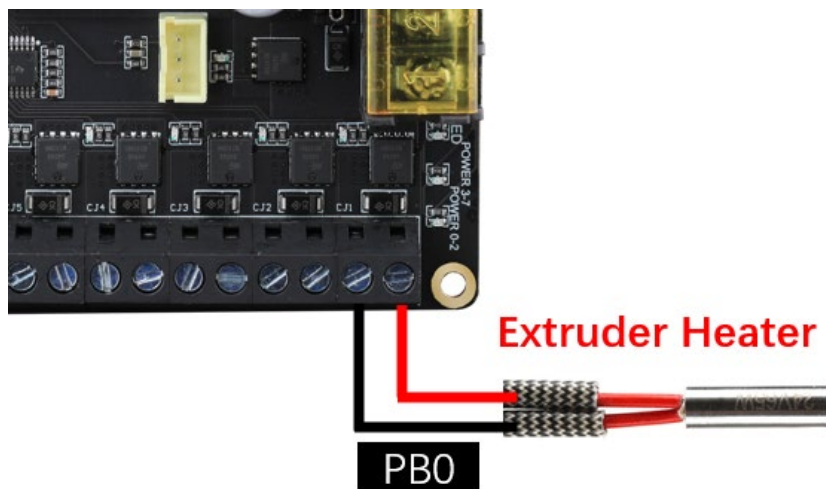
AC HEATER BED CONNECT



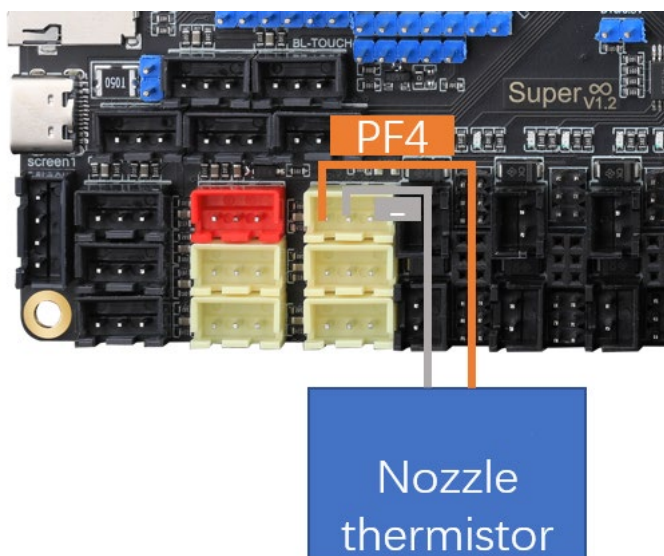
BED THERMISTOR



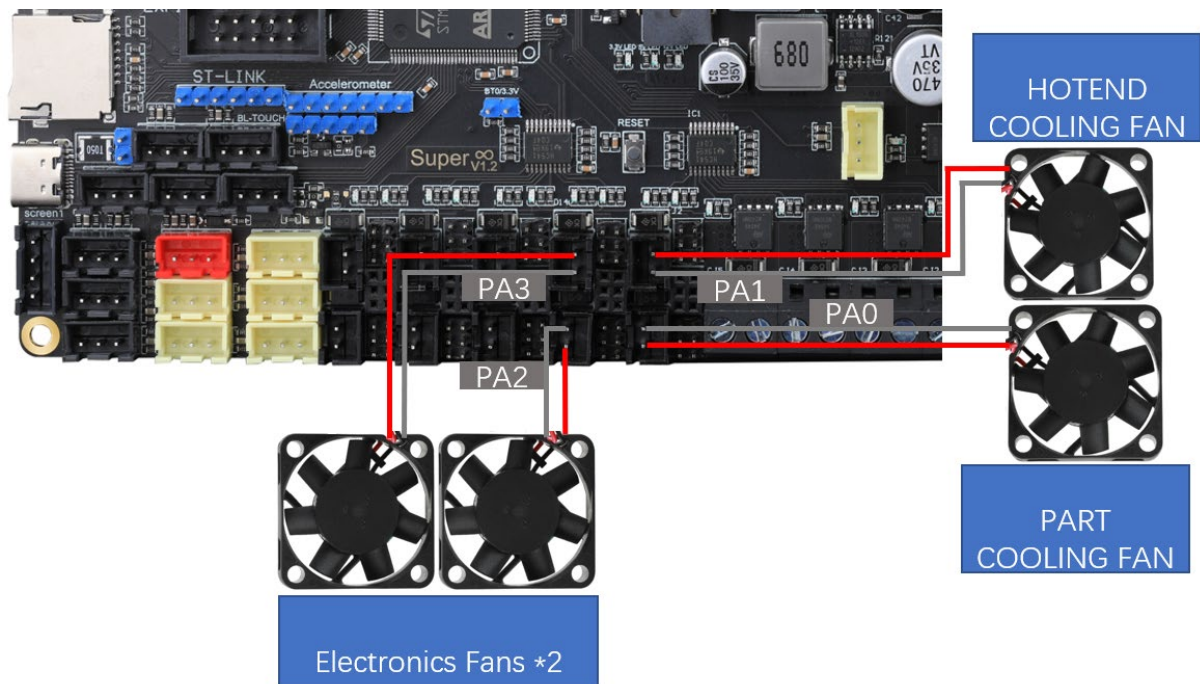
EXTRUDER HEATER



EXTRUDER THERMISTOR



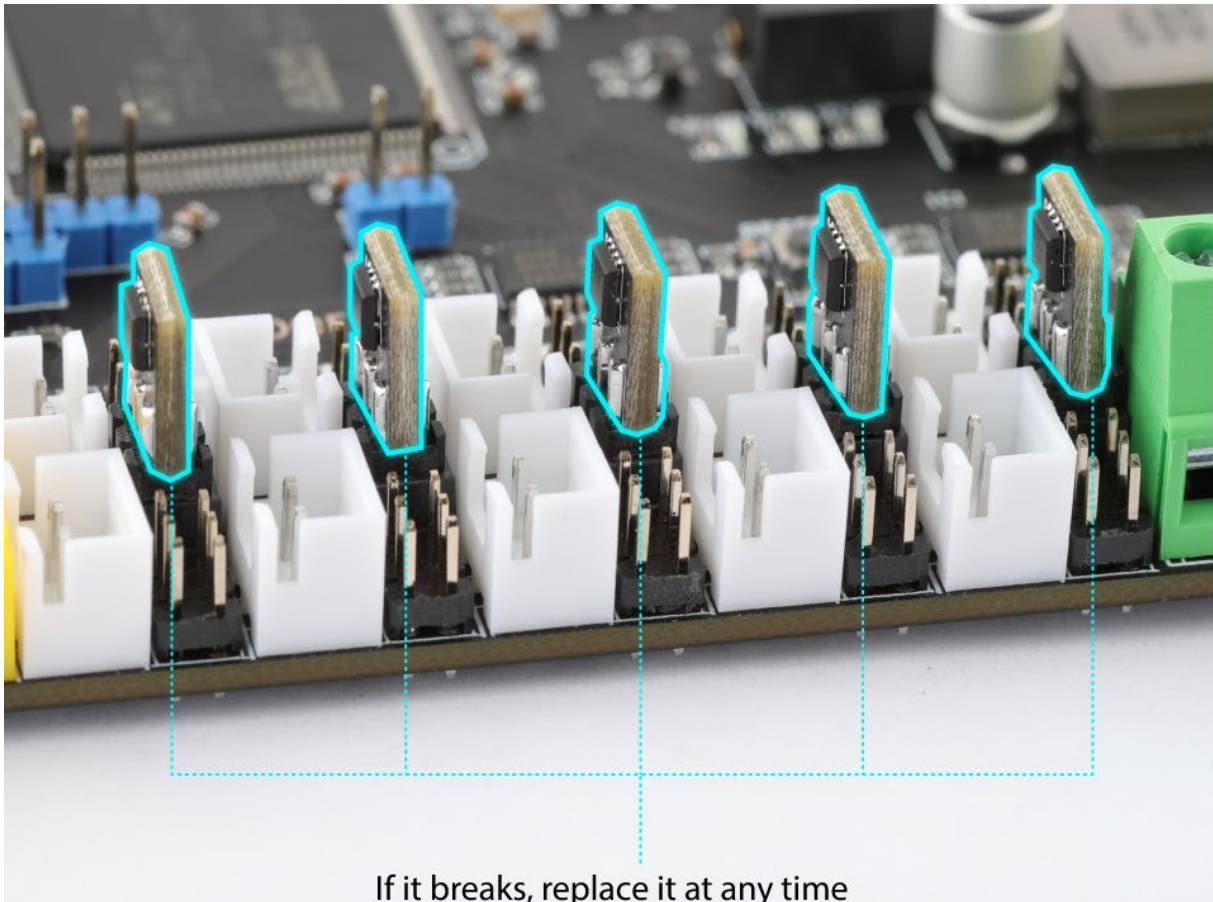
COOLING FAN



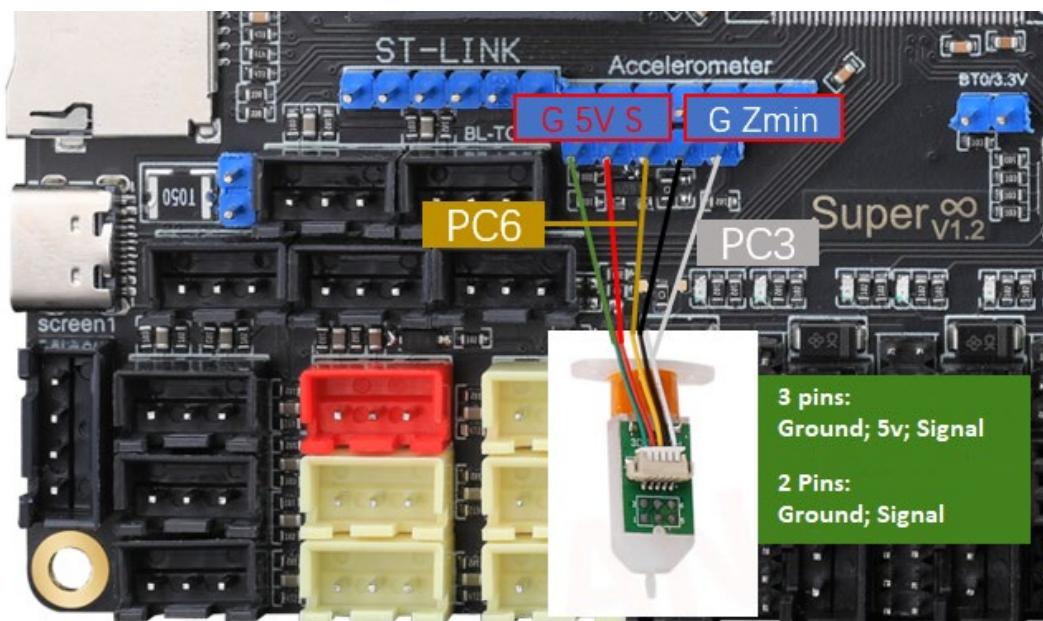
FAN VOLTAGE



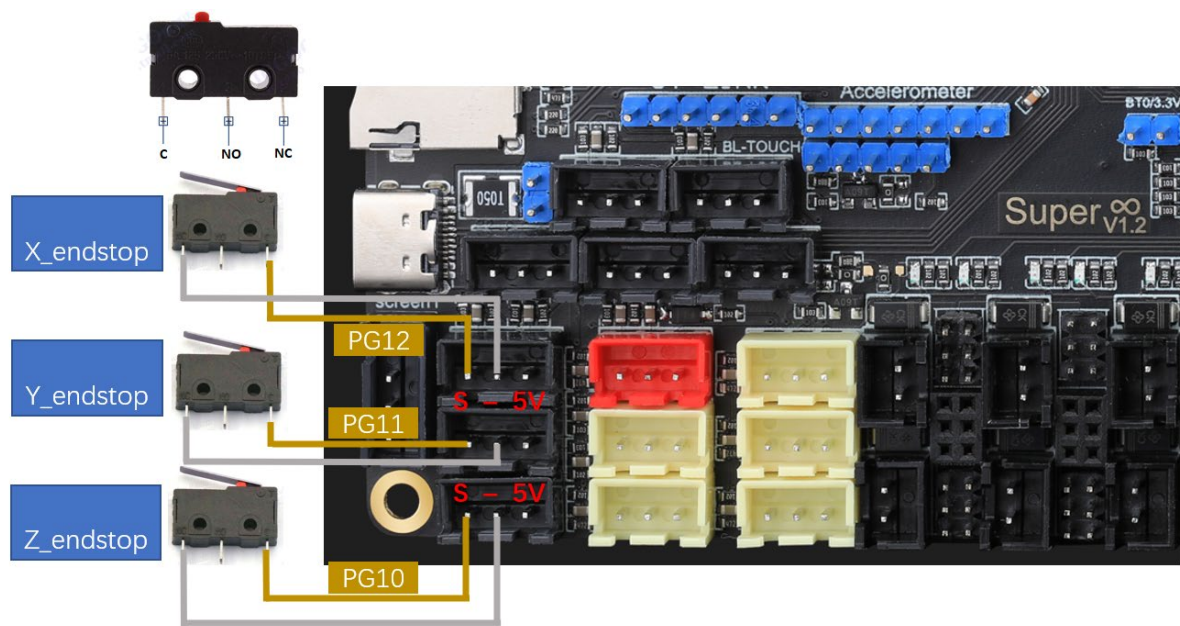
FAN MOSFET (Can be replaced)



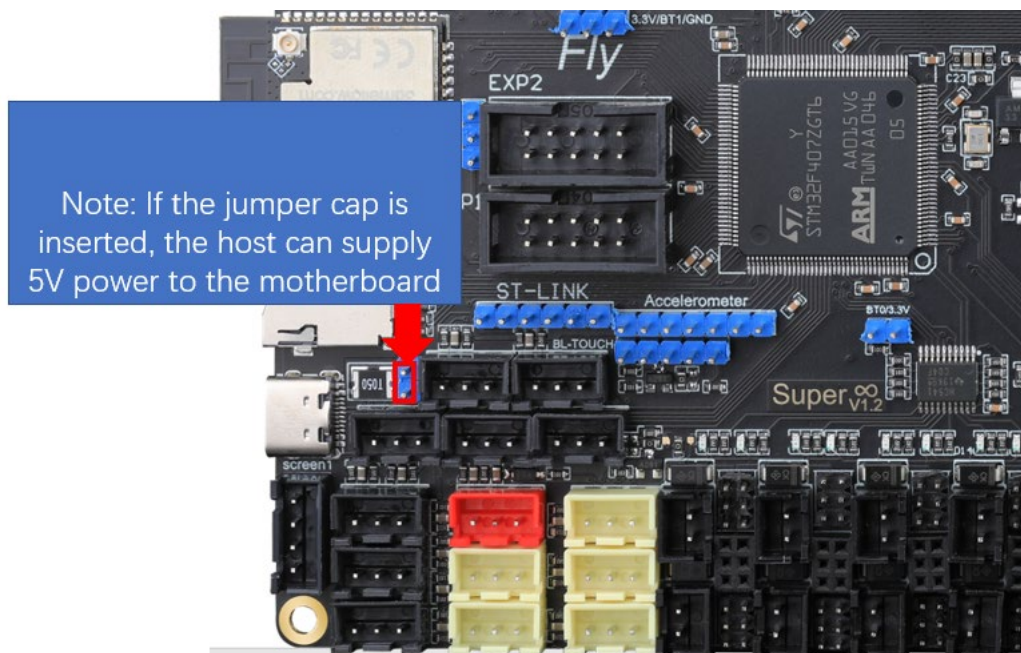
BLTouch



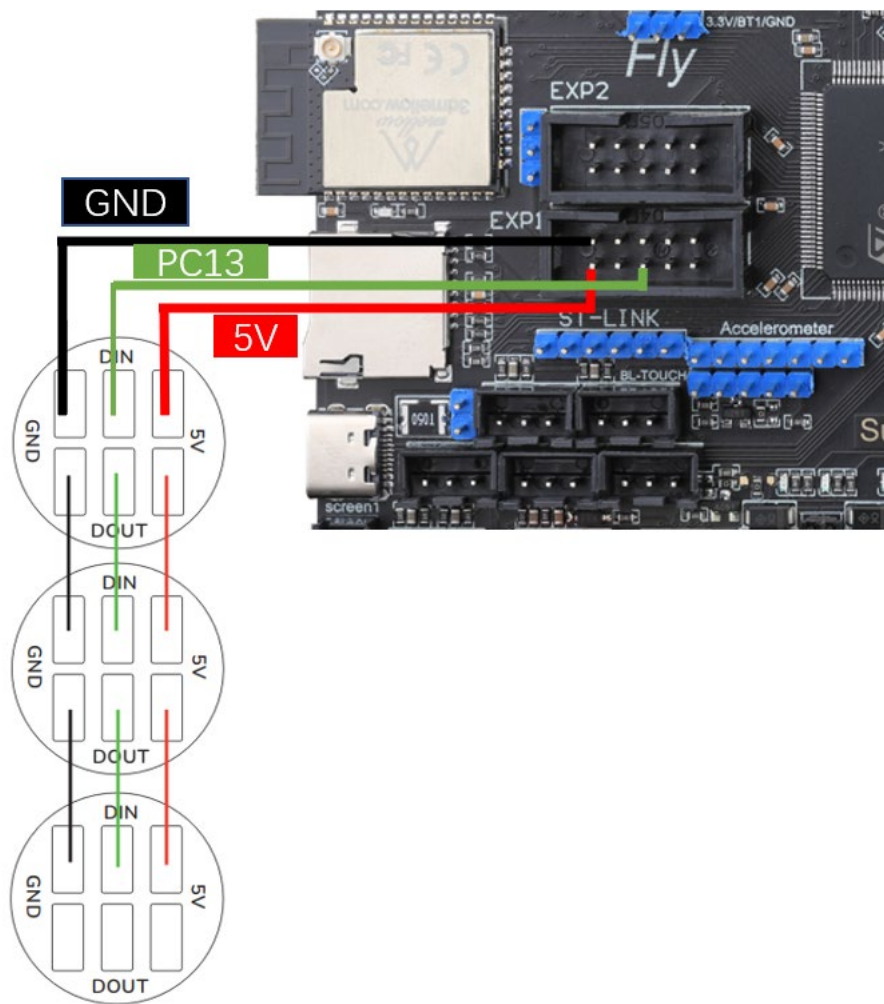
ENDSTOP



USB POWER



NEOPIXELS



KLIPPER COMPILE FIRMWARE – Fly Super 8 Pro (SMT32H723)

- connect ssh to your klipper host console
- cd to the klipper directory

```
cd ~/klipper
```

- Run make clean

```
make clean
```

- Open menuconfig

```
make menuconfig
```

- Set the following settings

Note:

If you are configuring Super 8 Pro without [CanBoot](#), set the Bootloader offset to **No Bootloader**

- Enable extra Low Level configuration options : *Checked*
- Micro Controller : STMicroelectronics STM32
- Processor Model : STM32H723
- Bootloader offset : 128 KiB bootloader or No Bootloader
- Clock Ref : 25 MHz crystal
- Comm Interface : USB on PA11/PA12

```
(Top)
Klipper Firmware Configuration
[*] Enable extra low-level configuration options
  Micro-controller Architecture (STMicroelectronics STM32) --->
  Processor model (STM32H723) --->
  Bootloader offset (128KiB bootloader (SKR SE BX v2.0)) --->
  Clock Reference (25 MHz crystal) --->
  Communication interface (USB (on PA11/PA12)) --->
  USB ids --->
() GPIO pins to set at micro-controller startup
```

- Quit and save the configuration
- Run Make to compile the firmware

```
make -j4
```