

NAMES Repetier

Heater Left Fan Board Heater right

Fan Heatsink Fan Hotend Heater Bed

101.6

12-24 V in
(Fans,
Hotends)

12-24 V out (Fans, Hotends)

12-24 V out
Heated
Bed

12-24 V in
Heated
Bed

PINS

15.24

13

12

11

9

8

7

11.43

I2C

3.3V GND SDA SCL

Steppers

11
12
21
22

Endstops

3.3V GND X min
3.3V GND Y min
3.3V GND Z min

3.3V GND X max
3.3V GND Y max
3.3V GND Z max

external SD card

Reset SCL1
CS0 MISO
GND CLK
3.3V MOSI
CS1 CD

Repetier

TEMP_1_PIN ; 3
TEMP_4_PIN ; 4
TEMP_3_PIN ; 5
TEMP_2_PIN ; 6
TEMP_0_PIN ; 7

Thermistors

GND T4
GND T3
GND T2
GND T1
GND T0

AUX1

5V
TX1
RX1
GND
25
27
29
31
33
35
37
GND

AUX2

DAC0
DAC1
CANRX
CANTX

AUX ADC

3.3V ADC GND

Servos and ATX_on

Servo PWM1 Servo PWM2 Servo PWM3 PS_on
Servo +5V out Servo +5V out Servo +5V out Servo +5V in
GND GND GND GND

40
PS_ON
5V In

Steppers

22
21
12
11

LCD and Encoder

GND LCD RS 5V LCD EN
LCD 4 LCD 5
LCD 6 LCD 7
BEEP ENC P
ENC B ENC A

2.54

3.2

5.08

73.91

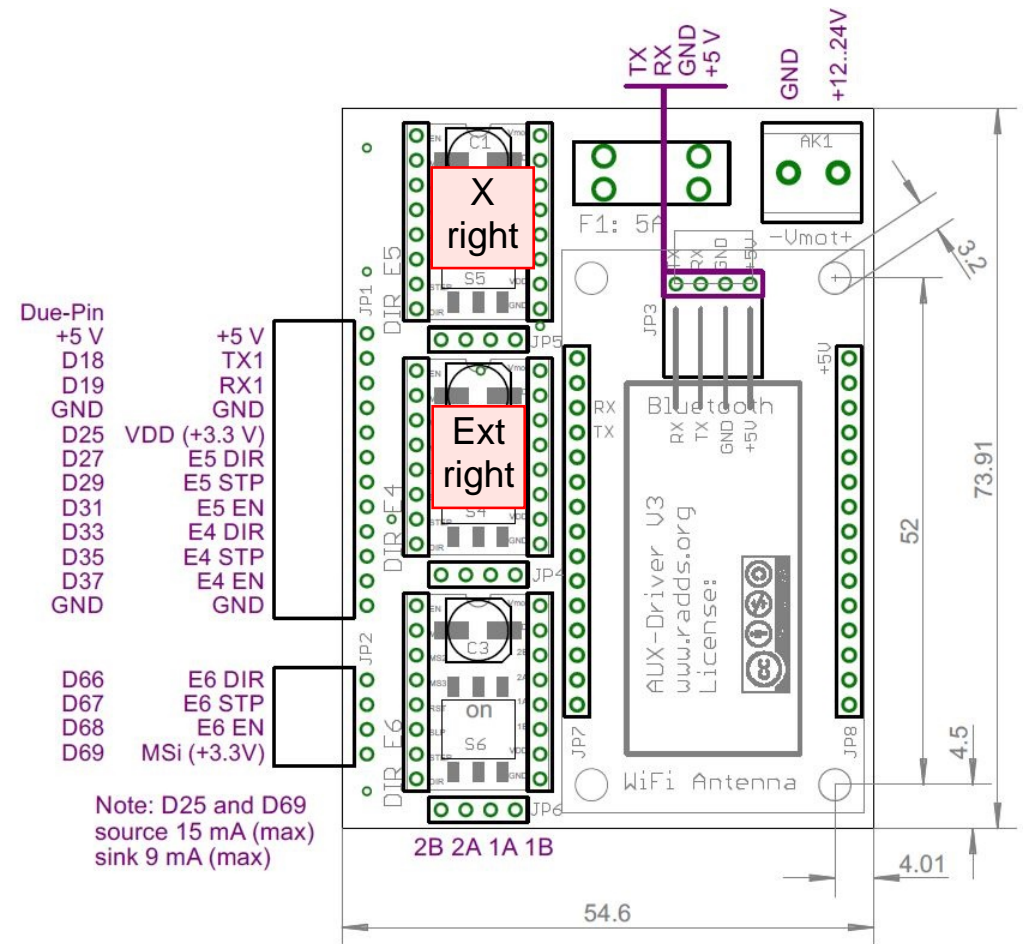
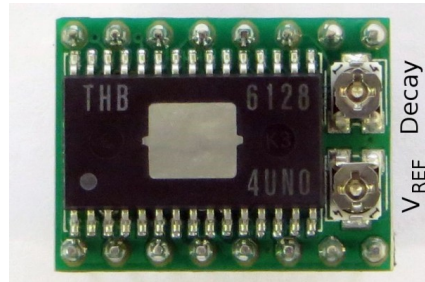
13.97

RAP128

Recommended voltage range: 0.8 to 1.6 V

--> see RAPS128 Simulator.xlsx

Mixed decay : 1.1 and 3.1v



A4988			DRV8825			RAPS128			Modes
MS1	MS2	MS3	MS1	MS2	MS3	MS1	MS2	MS3	STEP
Off	Off	Off	Off	Off	Off	Off	Off	Off	1
On	Off	Off	On	Off	Off	On	Off	Off	1/2
Off	On	Off	Off	On	Off	Off	On	Off	1/4
On	On	Off	On	On	Off	On	On	Off	1/8
On	On	On	Off	Off	On	Off	Off	On	1/16
			On	On	On	On	Off	On	1/32
						Off	On	On	1/64
						On	On	On	1/128