

Variables

Heater Left

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

11.43

Steppers

11
12
21
22

I2C

3.3V GND SDA SCL

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

Micro-SD

SD external

Z left

Y

X left

Z right

Ext left

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

AUX1

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

AUX2

DAC0
DAC1
CANRX
CANTX

2.54

3.2

5.08

73.91

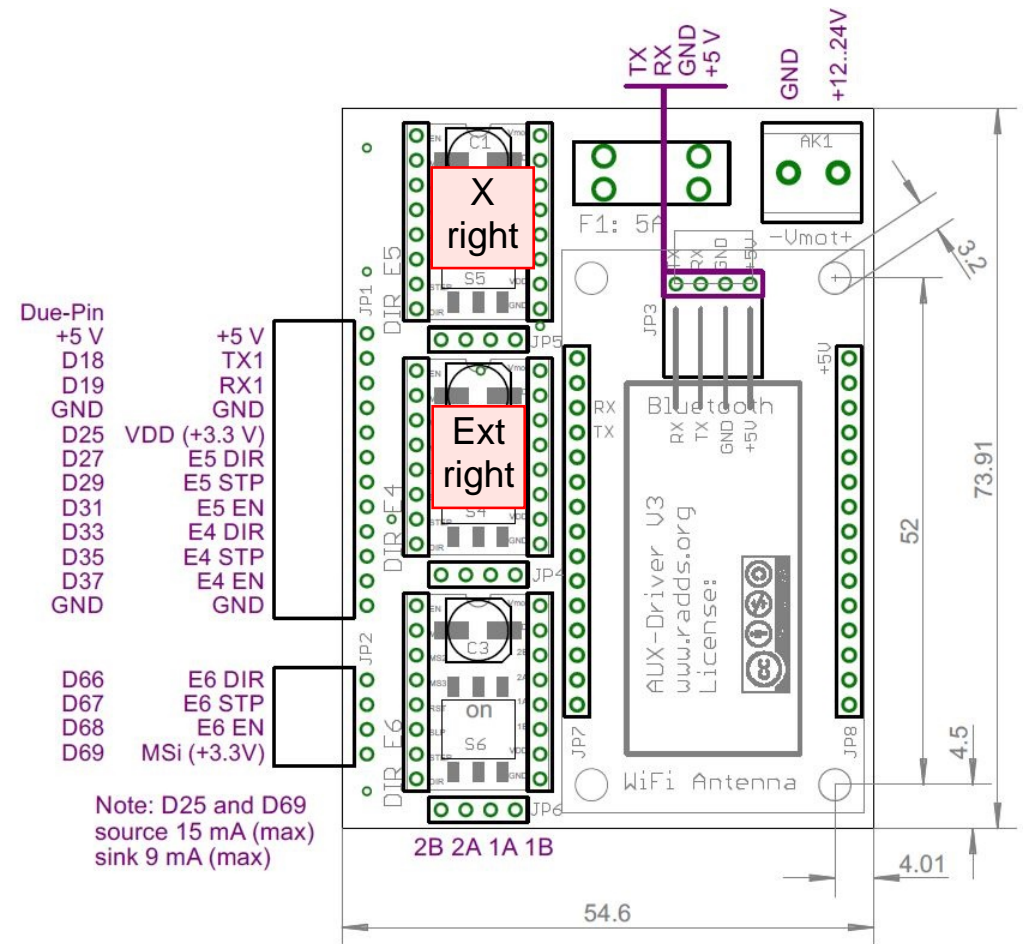
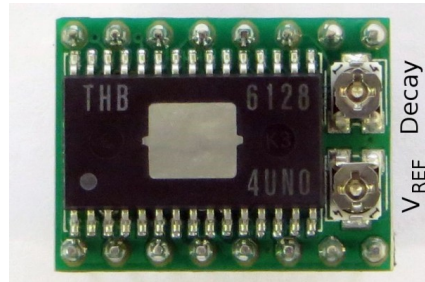
13.97

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