MDRB

MDRB is a 5 in 1 stepper driver module base board designed to use with popular A4988/DRV8825 or TMC2208 modules. Configurations to each module are supported such as microstepping or input logic inverting. Input logic level 3.3V and 5V compatible.

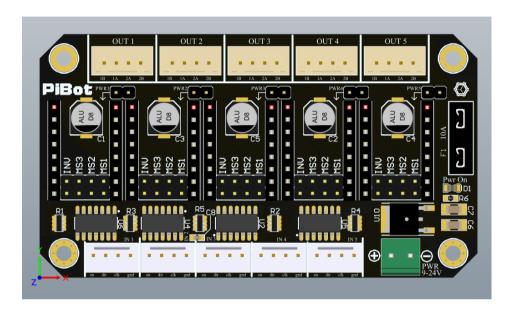
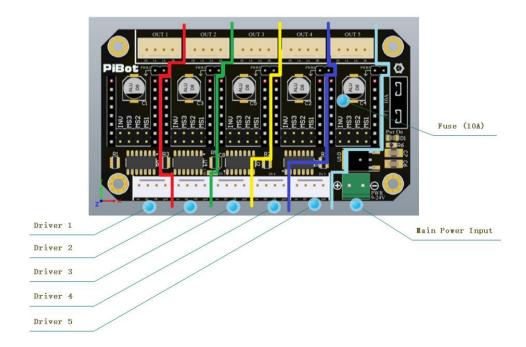


Fig1: MDRB overview

Application of MDRB is designed to be very easy. The function area divided in to 6 sections, namely Driver 1-5 and a power area.



OUT1

 $\begin{array}{c} \text{Connect to stepper} \\ \text{motor } 1 \end{array}$

PWR1

Jumper of VMOT of driver 1 module, used to cut off power of driver 1 or measure the current.

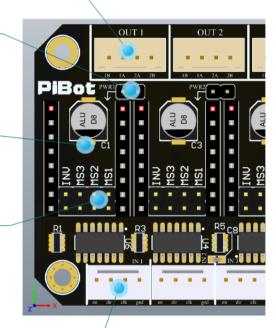
Driver Module 1

Configuration Jumper 1

INV: Invert Logic, ON=Inverted

MS3, MS2, MS1: Microstepping jumper,

jumper ON=HIGH



Driver Input 1

en: enable dir: direction clk: clock gnd: ground

Jumper Configuration (A4988 for example)

DIV	MS1	MS2	MS3
1	OFF	OFF	OFF
2	ON	OFF	OFF
4	OFF	ON	OFF
8	ON	ON	OFF
16 (Default)	ON	ON	ON

Invert PIN Logic table

INV	en	dir	clk
OFF (Default)	LOW = Enabled	HIGH = CW	Rising edge = 1 step
	HIGH = Disabled	LOW = CCW	
ON	HIGH = Enabled	LOW = CW	Falling edge =1 step
	LOW = Disabled	HIGH = CCW	

^{*}CW = Clock wise, CCW = Counter clock wise