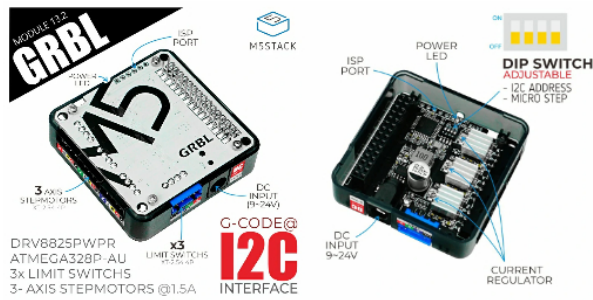


GRBL 13.2

SKU:M035



Description

GRBL 13.2 is a three-axis stepper motor driver module in the M5Stack stacking module series. It uses an ATmega328P-AU controller with three sets of DRV8825PWPR stepper motor driver chip control ways, which can drive three bipolar steppers at the same time.

Using the I2C communication interface (default address:0x70) and integrated DIP switch for adjusting motor step subdivision (maximum support of 1/32 step subdivision) and I2C address adjustment (support dual address adjustment 0x70, 0x71), You can achieve six-axis control by stacking two **GRBL 13.2** modules.

The power input interface is DC/9-24V, the motor drive current can reach 1.5A, and three sets of limit switch signal interfaces are open, which can be used to connect an external limit switch to realize the motor braking function. Suitable for a variety of stepping motor motion control scenarios, such as printers, robotic arms, etc.

Product Features

- ATmega328P-AU controller
- Three-axis DRV8825PWPR stepper motor driver
- Drive current up to 1.5A
- Drive bipolar stepper motor
- Maximum 1/32 mode STEP subdivision

Include

- 1x GRBL 13.2 Module

Applications

- Printer
- scanner
- Office automation machine
- Factory automation
- robot technology

Specification

Specifications	Parameters
Motor driver chip	DRV8825PWPR
Controller chip	ATmega328P-AU
Maximum drive current of single channel	1.5A
Support maximum step subdivision	1/32
Interface	XT2.54-4P

Net weight	22.5g
Gross weight	42.3g
Product size	54.2*54.2*13.2mm
Package size	95*65*25mm

EasyLoader

EasyLoader is a concise and fast program writer, which has a built-in case program related to the product. It can be burned to the main control by simple steps to perform a series of function verification. Please install the corresponding driver according to the device type. M5Core host

[Please click here to view the CP210X driver installation tutorial](#)

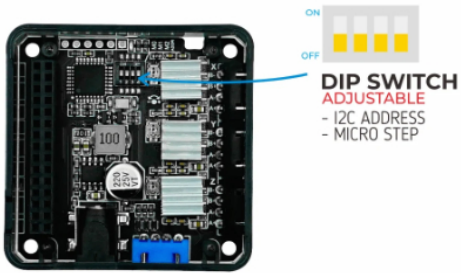
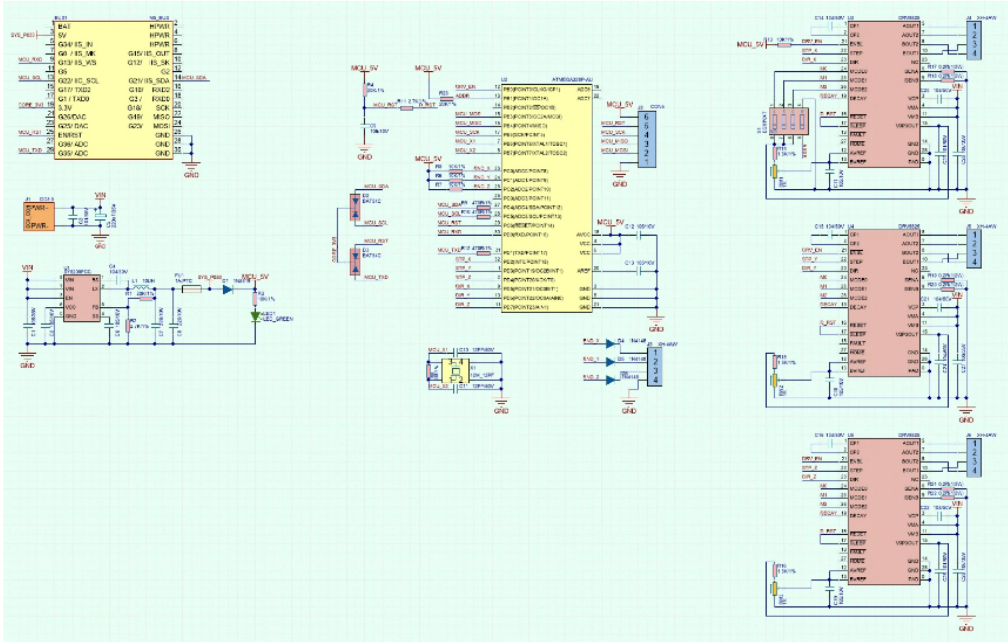
Related Link

[DRV8825 Datasheet](#)

PinMap

M5Stack	GPIO21	GPIO22	5V	GND
GRBL 13.2	SDA	SCL	VCC	GND

Schematic



Step subdivision adjustment

MODE2	MODE1	MODE0	STEP MODE
0	0	0	Full step (2-phase excitation) with 71% current
0	0	1	1/2 step (1-2 phase excitation)
0	1	0	1/4 step (W1-2 phase excitation)
0	1	1	1/8 step
1	0	0	1/16 step
1	0	1	1/32 step
1	1	0	1/32 step
1	1	1	1/32 step

I2C address adjustment

Switch	Address
0	0x70
1	0x71

Example

[Arduino Example Code](#)

PURCHASE