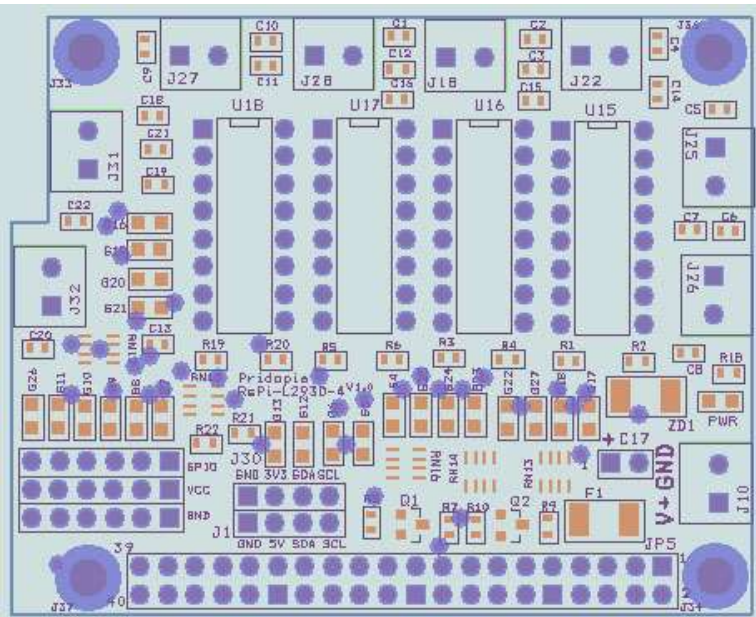
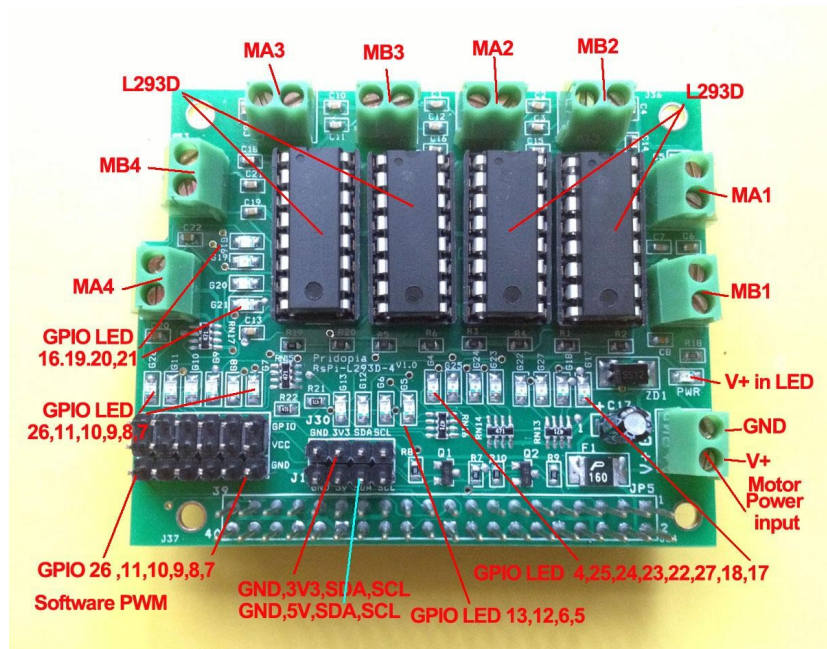
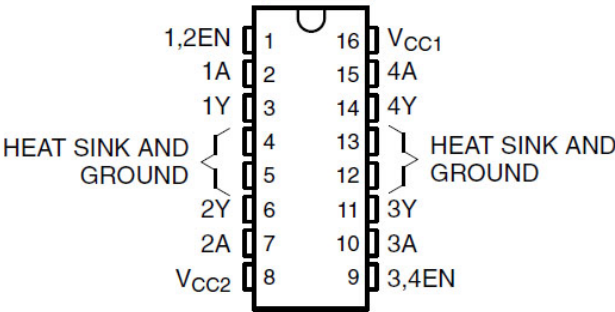


RsPi-L293D-4-v1.0 8 Motor Board User Manual



Pi- B+	
3V3	1 2
GPIO2 I2C SDA1	3 4
GPIO3 I2C SCL1	5 6
GPIO4 1-Wire	7 8
Ground	9 10
GPIO17	11 12
GPIO27	13 14
GPIO22	15 16
3V3	17 18
GPIO10 SPI_MOSI	19 20
GPIO9 SPI_MISO	21 22
GPIO11 SPI_SCLK	23 24
Ground	25 26
ID_SD I2C_ID EEPROM	27 28
GPIO5	29 30
GPIO6	31 32
GPIO13	33 34
GPIO19	35 36
GPIO26	37 38
Ground	39 40
5V	
5V	
Ground	
GPIO14 UART_TXD	
GPIO15 UART_RXD	
GPIO18 PCM_CLK	
Ground	
GPIO23	
GPIO24	
Ground	
GPIO25	
GPIO8 SPI_CE0	
GPIO7 SPI_CE1	
ID_SC I2C_ID EEPROM	
Ground	
GPIO12	
GPIO16	
GPIO20	
GPIO21	



Pin 1	Pin 2	Pin 7	Function
High	Low	High	Turn clockwise
High	High	Low	Turn anti-clockwise
High	Low	Low	Stop
High	High	High	Stop
Low	Not applicable	Not applicable	Stop

This board use RS-Pi

- * GPIO 17,18,27,22 for MA1, MB1
- * GPIO 23, 24, 25, 4 for MA2, MB2
- * GPIO 5, 6,12,13 for MA3,MB3
- * GPIO 16,19,20,21 for MA4,MB4
- * GPIO 7, 8, 9, 10,11, 26 with software PWM Servo output
- * Motor use 5V DC Motor

Download GPIO library

<https://pypi.python.org/pypi/RPi.GPIO> GPIO library

GPIO library - RPi.GPIO-0.5.6.tar.gz

Install python , library and run the test program

```
# sudo apt-get install python-dev
# wget http://www.pridopia.co.uk/pi-pgm/RPi.GPIO-0.5.6.tar.gz
# gunzip RPi.GPIO-0.5.6.tar.gz
# tar -xvf RPi.GPIO-0.5.6.tar
# cd RPi.GPIO-0.5.6
# sudo python setup.py install
# sudo python 6motor.py
```

Test Program

Download test program on our web site

<http://www.pridopia.co.uk/pi-L293d-4.html>

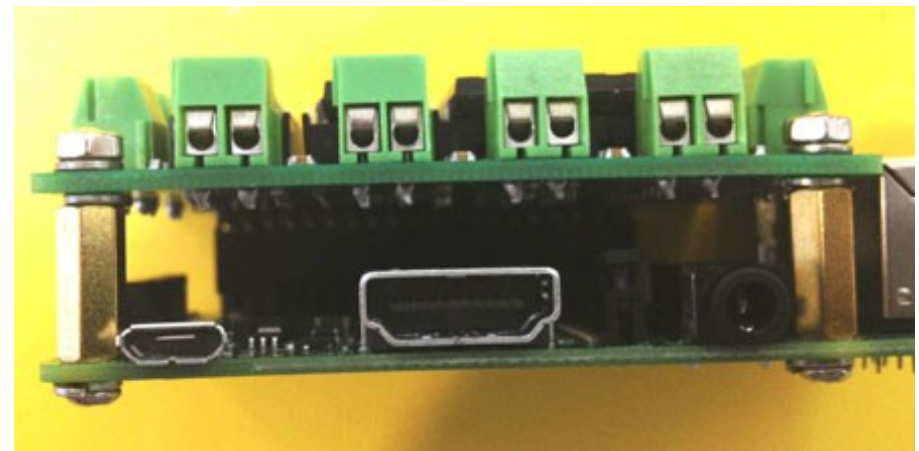
2motor.py 4motor.py 6motor.py Maplin-Arm.py

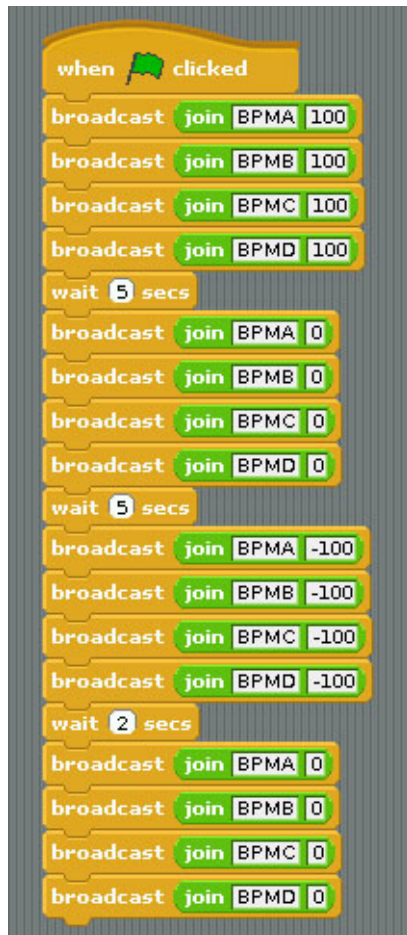
New Pridopia scratch interface software you can download from our web site

<http://www.pridopia.co.uk/rs-pi-set-scratch.html>

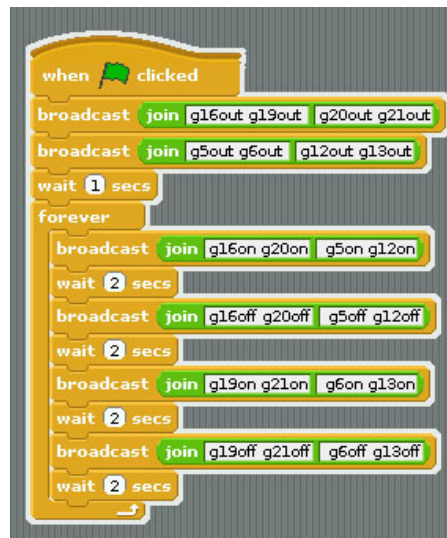
Package Content

1x Rs-Pi L293D-4 8 Motor - Board for B+
1x Manual





PWM mode command



GPIO Mode command

(2)Scratch PWM command mode for A/B model 26pin GPIO

A - GPIO 17,18 Motor A B - GPIO 27,22 Motor B

C - GPIO 23,24 Motor C D - GPIO 25,4 Motor D

command "Motor Name"+ "DM"+"speed"

speed (10 ~100) clockwise

speed (-10 ~ -100) anticlockwise



(1)Scratch PWM command mode GPIO pin for B+ model

A - GPIO 16,19 Motor A B - GPIO 20,21 Motor B

C - GPIO 5,6 Motor C D - GPIO 12,13 Motor D

command "BPM"+"Motor Name"+ "speed"

speed (0) stop

speed (10 ~100) clockwise

speed (-10 ~ -100) anticlockwise