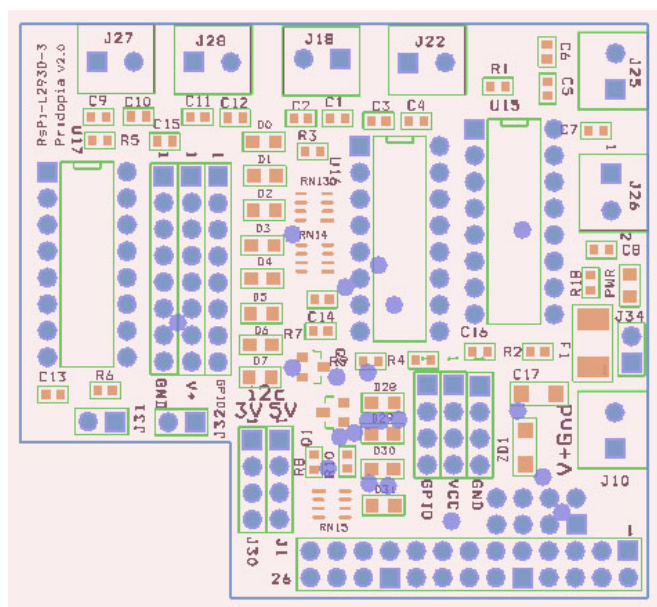
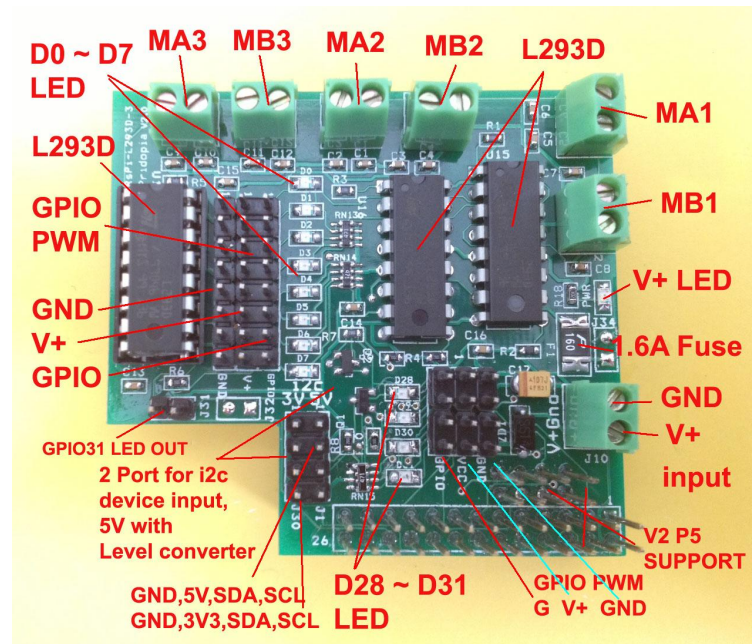
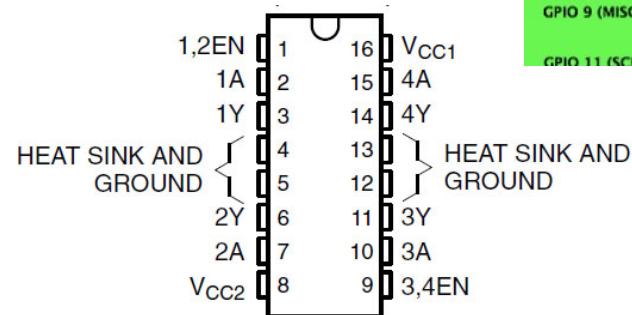
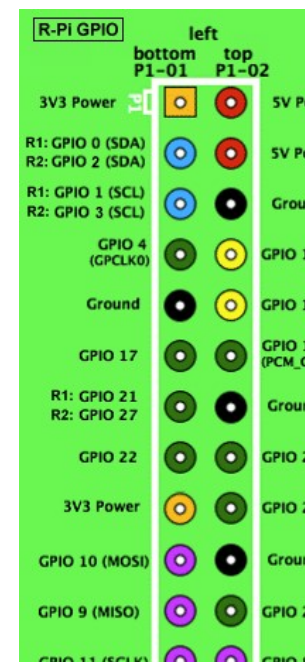
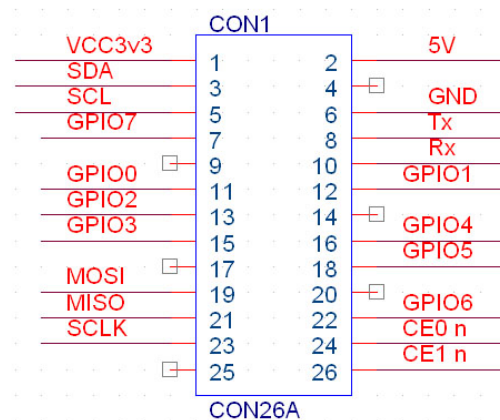


RsPi-L293D-3-v2.0 6 Motor Board User Manual



Rs-Pi P1 Connector



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

**Pin 11(GPIO 17) , Pin12 (GPIO 18) , Pin13 (GPIO 27) , Pin15 (GPIO 22)
Pin 16(GPIO 23) , Pin18 (GPIO 24) , Pin22 (GPIO 25) , Pin7 (GPIO 4)**

L293D use RS-Pi pin 11,12,13,15,16,18,22,7 as

GPIO 0 to GPIO 7 input

GPIO 0 ~ 3 for MA1, MB1

GPIO 4 ~ 7 for MA2, MB2

GPIO 28 ~31 for MA3,MB3 (need V2 - P5 connector) or use for ultrasonic sensor connector (2GPIO , one for Trig, one for Echo)
2 extra 12c input for sensors (5V or 3v3) (5V port with Level converter)

1. J29 pin1 – pin5 GPIO28,GPIO29,GPIO30,GPIO31,GND

J30 pin1 – pin4 GND,3V3,SDA,SCL

J1 pin1 – pin4 GND,5V,SDA,SCL

2. U15,U16, U17 L293D

3. J17 RS-Pi-V2 GPIO28,GPIO29,GPIO30,GPIO31 from V2 GPIO

4. 5 . J24 Mini USB 5V input

* Motor use 5V DC Motor

L293D use RS-Pi pin 11,12,13,15,16,18,22,7 as

GPIO 0 to GPIO 7 input

If you want use GPIO 28,29,30,31 for other function not for motor control, remove U17 L293D from socket

Download GPIO library

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

GPIO library - RPi.GPIO-0.5.4.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-0.5.4.tar.gz
```

```
# gunzip RPi.GPIO-0.5.4.tar.gz
```

```
# tar -xvf RPi.GPIO-0.5.4.tar
```

```
# cd RPi.GPIO-0.5.4
```

```
# sudo python setup.py install
```

```
# sudo python 6motor.py
```

Test Program

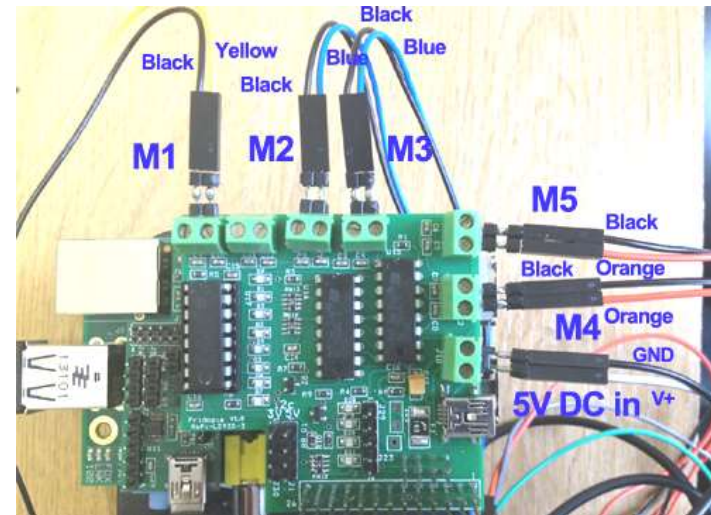
Download test program on our web site

<http://www.pridopia.co.uk/pi-L293d-3.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>

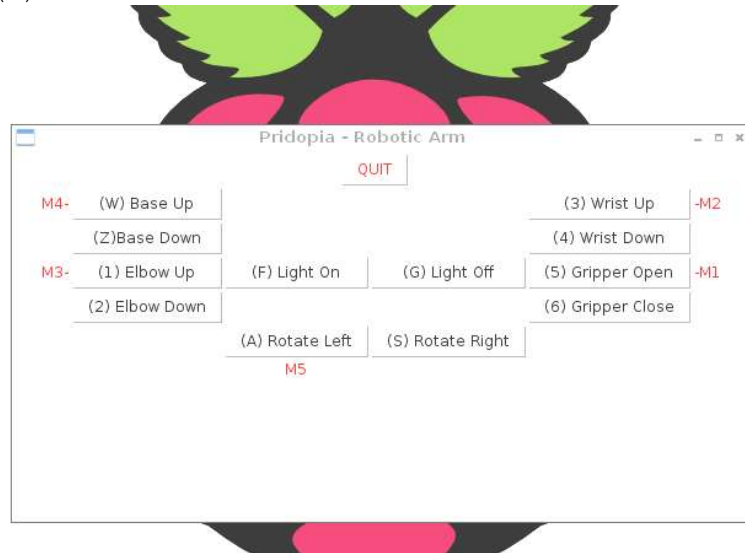


Package Content

1x Rs-Pi L293D-3-v2 6 Motor board

1x Manual

(1) xWindows control mode

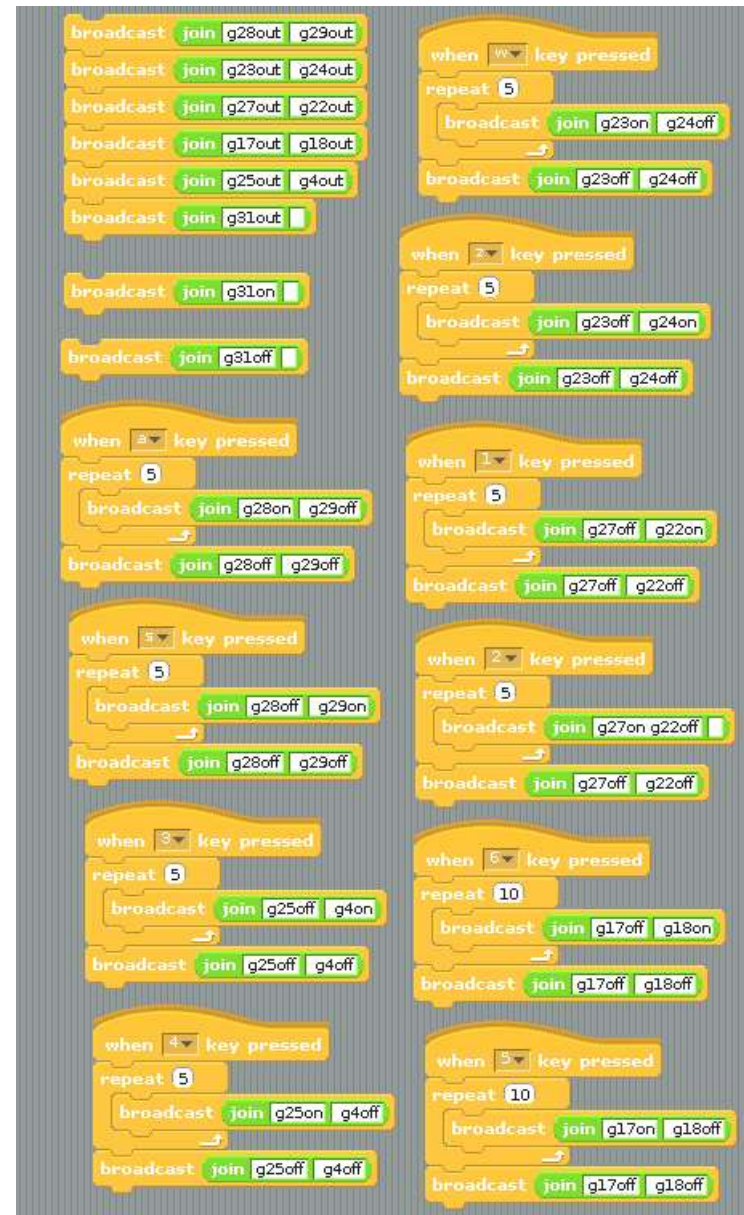


Maplin-Arm.py demo

Use mouse & keyboard control in xWindows
control 5 Motor (M1, M2, M3, M4, M5) and LED ON/OFF

(2) Scratch GPIO control mode

1. setting GPIO 17,18,27,22,23,24,25,4 as output
2. setting GPIO 28,29,31 as output



(3) Scratch PWM command mode

Include i2c 20x4 LCD Screen & i2c 24x16 LED Matrix

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

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

E - GPIO 28,29 Motor E

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

speed (10 ~100) clockwise

speed (-10 ~ -100) anticlockwise

