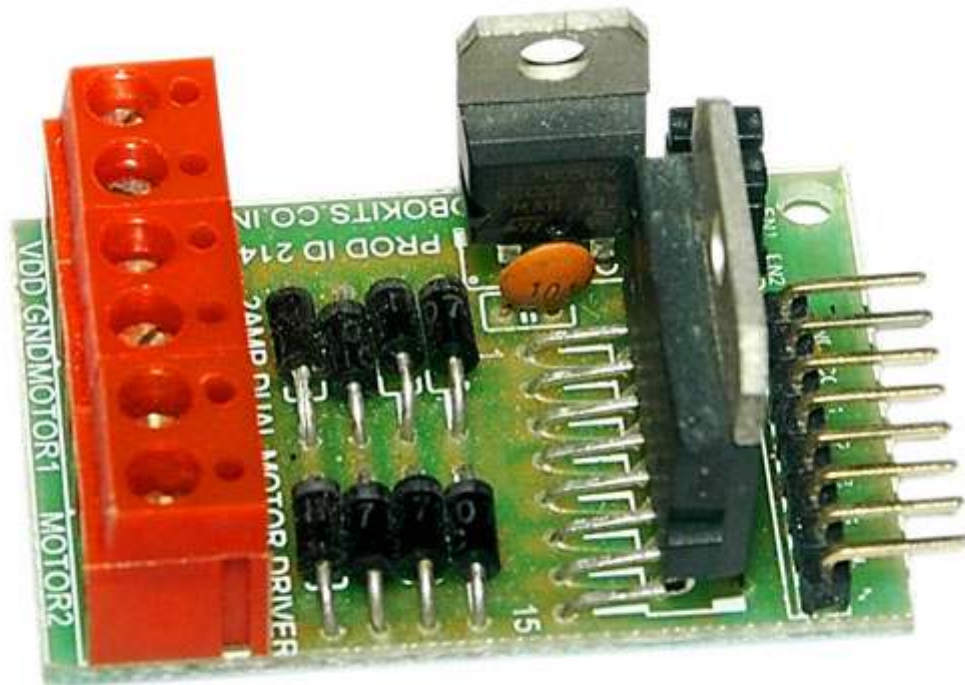


## **2A Dual Motor driver module with PWM control [RKI-1172]**



### **Users Manual**

### **Robokits India**

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### **Robokits World**

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Thank you for purchasing the 2A Dual Motor driver module with PWM control. This unit has been carefully engineered and tested to provide superior performance. This document covers the features and operation of the 2A Dual Motor driver module with PWM control.

This is an easy-to-use circuit with TTL compatible inputs. It can work up to 55V and 2Amp.

## Features

- Small Size
- Can be easily power from an AC – DC source or Battery
- On Board 5V Regulator to supply power output to any external control unit like MCU
- Jumpers for selecting PWM or Non-PWM mode
- TTL input interface

## Setting up the Board

### Providing Power Supply

- You can provide the power supply to the board from any DC source from 6V to 20V.
- To power up the board using any DC source use VDD terminal as +VE terminal and GND as –VE terminal.
- Be careful while applying power otherwise the regulator & motor driver IC's will blow up.
- To give supply other than power supply provided open the screws, insert the supply wires and fasten them again.

## Board Information

### Jumpers

- There are two jumpers which selects PWM or non PWM mode for both motors.
- Disconnect to use PWM mode. In this mode you need to give external PWM signals.
- Connect them to use this module in normal mode. No need of PWM signals.
- Jumper called “EN1” is for MOTOR1 and “EN2” for MOTOR2

### Inputs

- 8 pin right angle berg strip is input section.
- Starting from 1<sup>st</sup> pin towards jumpers pin connections are GND, VCC(+5V output), M1-1, M1-2, M2-1, M2-2, PWM2, PWM1.

### Outputs

- There are three two pin screw terminals.
- One written with VDD and GND is for supply to this unit
- Motor1 & Motor2 are for Connecting DC motors

### Using stepper motor

- You can connect 5 wire, 6 wire or 8 wire stepper and drive using this unit.
- Just connect 4 coil wires to both motor ports. Keep common wires open.
- Give input pulse train to drive stepper.

## Service and Support

Service and support for this product are available from Robokits India. The Robokits Web site (<http://www.robokits.co.in>) maintains current contact information for all Robokits products.

## Limitations and Warranty

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