

# DRI0044 2x1.2A DC Motor Driver

Micro dual-way DC motor driver based on the TB6612FNG motor driver IC

## Product Overview

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## Description

The DRI0044 2x1.2A DC Motor Driver from DFRobot is a micro dual-way DC motor driver based on the TB6612FNG motor driver IC. This motor driver inherits the motor control logic of L298N and needs only four pins to drive two motors. The DRI0044 motor driver features a 1.2A maximum continuous drive current of single-channel and 2.7V to 5.5V operating voltage. The 1.2A of output current is sufficient to drive some micro DC motors. This motor driver uses a standard XH2.54 pin that can be inserted directly into the breadboard. The DRI0044 motor driver is ideal for use in DIY projects or product developments.



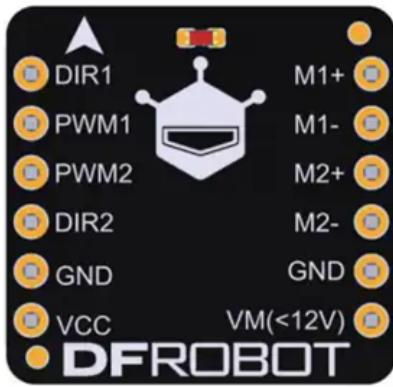
## Features

- Needs only four pins to drive two motors
- 1.2A maximum continuous drive current of single-channel
- Control logic is similar to L298N
- Standard XH2.54 pin can be inserted directly into the breadboard
- 2.7V to 5.5V operating voltage
- Start/peak current:
- 2A (continuous pulse) / 3.2A (single pulse)
- 20mm x 19.5mm dimensions

## Additional Resources

- [DRI0044 2x1.2A DC Motor Driver Schematic](#)
- [Toshiba TB6612FNG Driver IC Datasheet](#)

## DRI0044 2x1.2A DC Motor Driver Overview



2x1.2A DC Motor Driver (TB6612FNG)

Label Number	Description
1	DIR1 M1 Direction Control
2	PWM1 M1 Speed control(PWM)
3	PWM2 M2 Speed control(PWM)
4	DIR2 M2 Direction Control
5	GND Negative power supply
6	VCC Power 3.3V-5V or IO port output high
7	M1+ A Output 1
8	M1- A Output 2
9	M2+ B Output 1
10	M2- B Output 2
11	GND Negative power supply
12	VM(<12V) Motor drive power 3.3V-12V

## Mouser Part Number(s)

[View All Parts](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-dri0044-dc-motor-driver/>