

Arduino L293D DC Motor Driver Control Shield



L293D is a monolithic integrated, high voltage, high current and 4-channel driver. This chip can drive DC motors with power supplier up to 36 Volts, and the chip also can supply a maximum current of 600mA per channel. L293D Dual Motor Shield has two L293D motor drivers and one 74HC595 shift register. The shift register expands 3 pins of the Arduino to 8 pins to control the direction for the motor drivers. The output enable of the L293D is directly connected to PWM outputs of the Arduino.

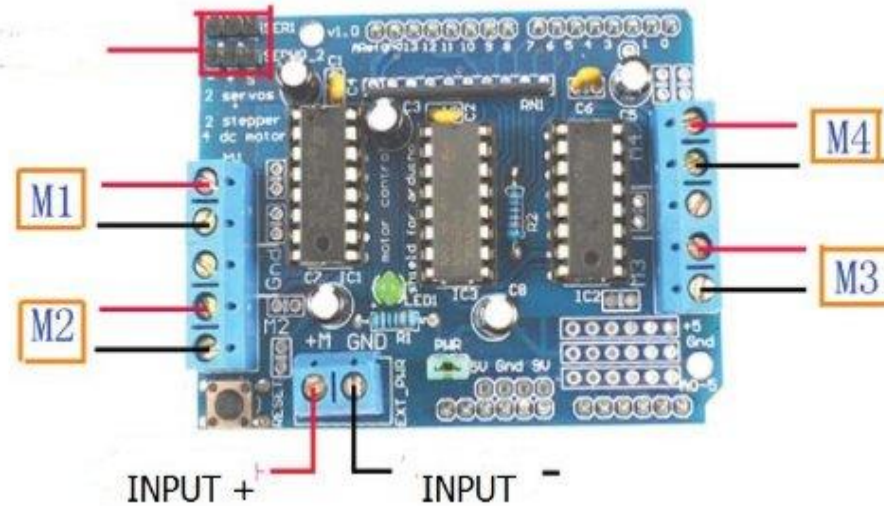
Technical Specifications:

- 8-Bit Serial-In, Parallel-Out Shift
- Wide Operating Voltage Range of 2 V to 6 V
- High-Current 3-State Outputs Can Drive Up To 15 LSTTL Loads
- Low Power Consumption, 80- μ A Max ICC
- Typical tpd = 13 ns
- Low Input Current of 1
- Shift Register Has Direct Clear

Features:

- Can drive 4 DC motors or 2 stepper motors or 2 Servo.
- Up to 4 bi-directional DC motors with individual 8-bit speed selection.
- Up to 2 stepper motors (unipolar or bipolar) with single coil, double coil or interleaved stepping.
- Pull down resistors keep motors disabled during power-up.
- Reset button.
- 2 external terminal power interfaces, for separate logic/motor supplies.
- Tested compatible for Arduino Mega, Diecimila & Duemilanove.

Pin-outs and Dimension:



Schematic :

