

L293D Motor Control Expansion Board For Arduino UNO Arduino Mega 2560 Motor Drive Shield



L293D Motor Control Expansion Board Motor Drive Shield

Here is a design for a full-featured motor shield that will be able to power many simple to medium-complexity projects.

L293D is a monolithic integrated, high voltage, high current, 4-channel driver.

Basically this means using this chip you can use DC motors and power supplies of up to 36 Volts, that's some pretty big motors and the chip can supply a maximum current of 600mA per channel, the L293D chip is also what's known as a type of H-Bridge.

The H-Bridge is typically an electrical circuit that enables a voltage to be applied across a load in either direction to an output, e.g. motor.

L293D Motor Control Expansion Board Motor Drive Shield Function:

2 connections for 5V servos motor connected to the Arduino's high-resolution dedicated timer - no jitter!

4 H-Bridges: L293D chipset provides 0.6A per bridge (1.2A peak) with thermal shutdown protection, internal kickback protection diodes. Can run motors on 4.5VDC to 25VDC.

Up to 4 bi-directional DC motors with individual 8-bit speed selection (so, about 0.5% resolution). 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. Big terminal block connectors to easily hook up wires (18-26AWG) and power Arduino reset button brought up top.

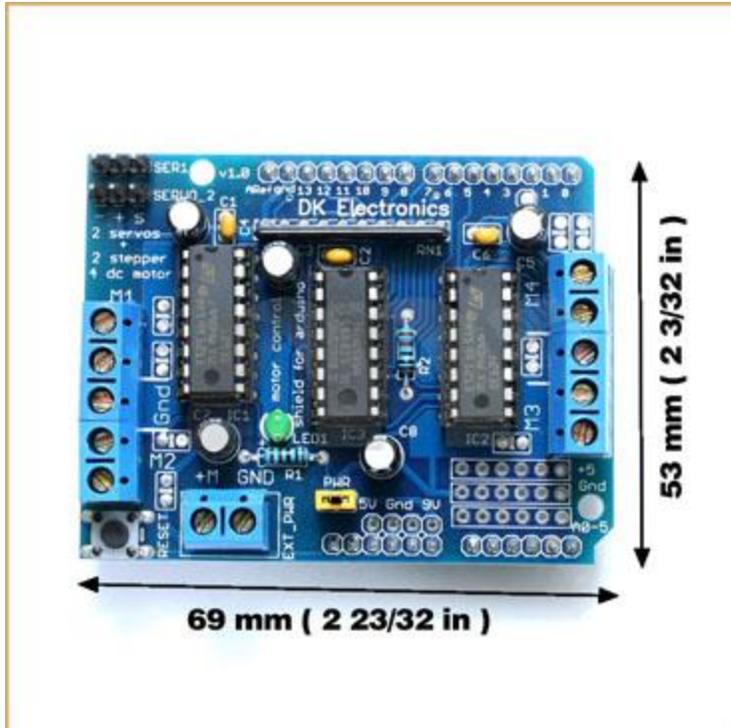
2-pin terminal block and jumper to connect external power, for separate logic/motor supplies.

Tested compatible with Arduino Mega 1280 & 2560, Diecimila, Duemilanove, and UNO.

L293D Motor Control Expansion Board Motor Drive Shield Specifications:

Dimensions (cm): 6.5 x 5.2 x 2

Weight (kg): 0.0347



L293D Motor Control Expansion Board Motor Drive Shield Packing include:

1 x L293D Motor Control Expansion Board Motor Drive Shield ForArduino UNO Arduino Mega 2560