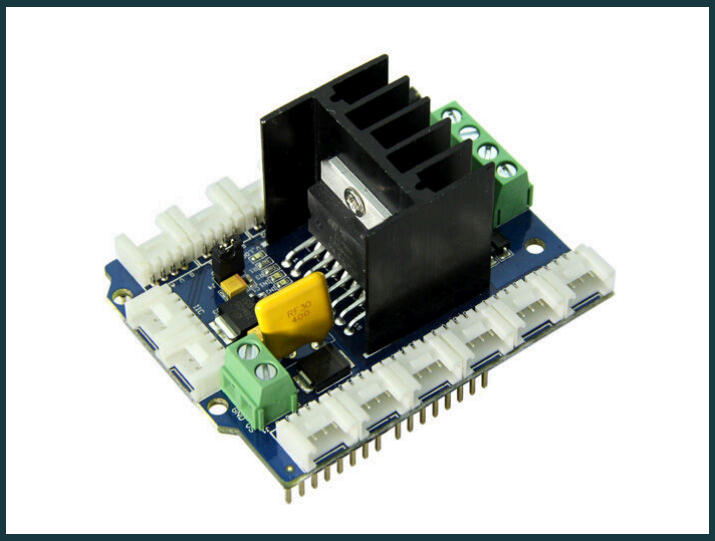
seeed studio

INDUSTRIAL PRODUCT DATASHEET

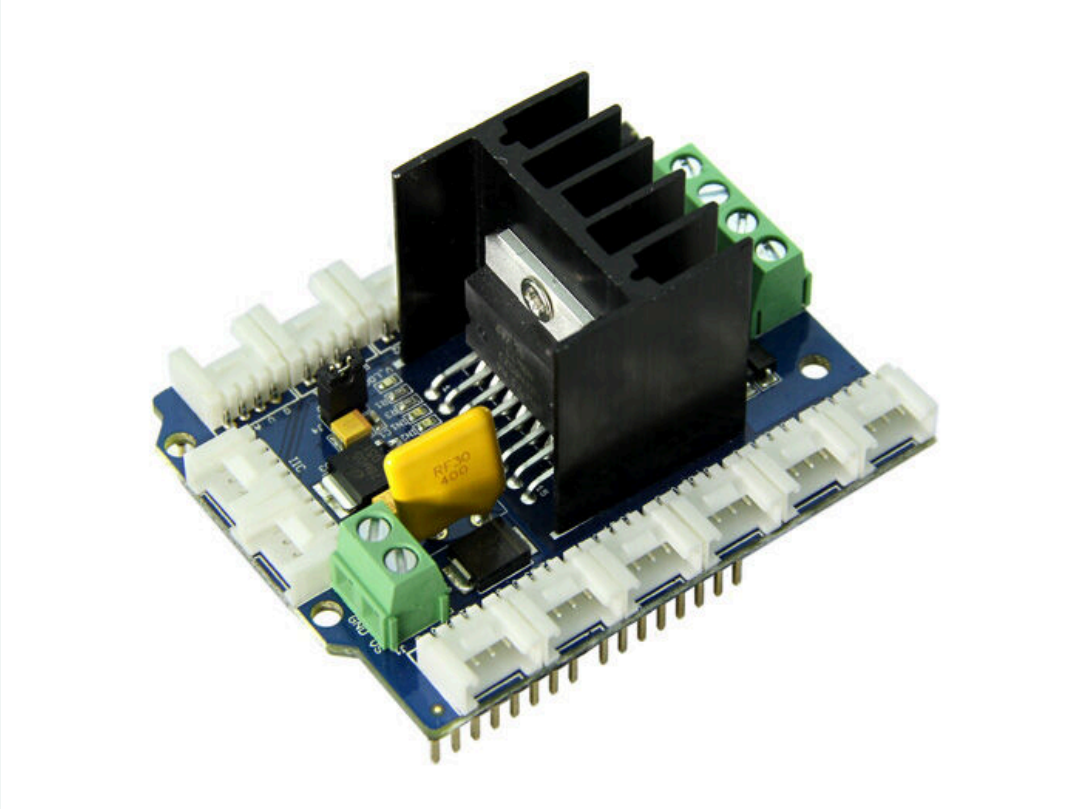
Motor Shield

Arduino-compatible motor driver shield using the L298N IC to drive two DC motors or one stepper motor, featuring Grove connectivity and integrated voltage regulation.

SKU	UPDATED	PRICE
103030012	2024-08-09 02:12:44	$19.50(Excl. VAT)



Overview



The Motor Shield is an Arduino-compatible board based on the H-bridge driver Chip L298N, enabling control of two brushed DC motors or one 4-wire two-phase stepper motor. It includes PWM speed control, 4 direction indicator lights, an onboard 5V regulator to power the Arduino, and 13 Grove connectors for plug-and-play sensors.

Key Features

This product was replaced by a updated version Motor Shield V2.0 (SLD01102P).

Motor Shield V2

The Motor Shield is a perfect platform for robotics and mechanical applications. It enables the Arduino to drive two brushed DC motors or one 4-wire two-phase stepper motor. Based on the H-bridge driver Chip L298N motor driver integrated circuit, it requires a 6V to 15V power supply to power the motor and also includes an on-board 5V voltage regulator for powering the main Arduino board. Additional plug and play Grove sensors can be connected to the 13 on-board Grove connectors.

Features

- Standard Arduino compatible
- Pulse-width modulated speed control mode
- 4 direction indicator lights
- Compatible with Grove plug and play sensors
- Extra large heat sink helps handle big loads

CAUTION:
The Driver IC and Heat sink may become very hot when working with current more than 1000mA.

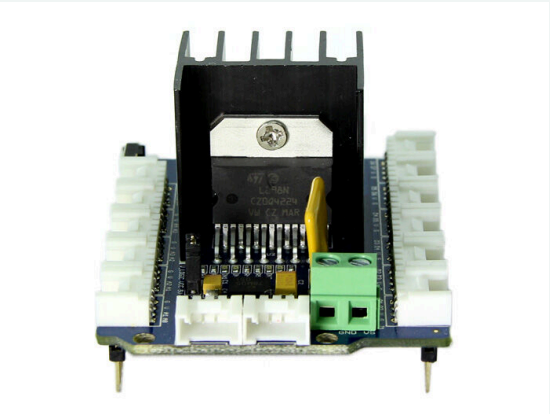
Specifications

For all Grove users (especially beginners), we provide you guidance PDF documents. Please download and read through **Preface - Getting Started** and **Introduction to Grove** before your using of the product.

Documents

Please visit our **wiki page** for more info about this product. It will be appreciated if you can help us improve the documents, add more demo code or tutorials. For technical support, please post your questions to our **forum**.

Product Gallery



Specification

Item	Min	Typical	Max	Unit
Logic Control Voltage	4.5	5	5.5	V
Motor Supply Voltage	6	/	15	V
Output Voltage	0	/	Vinput -1	V
Output Current(For Each Channel)	/	/	2000 *	mA
Output Duty range	0%~100%			/
Dimension	68.5x54.5x29.5			mm
Net Weight	37			g

Compliance & Logistics

HSCODE

Resource Links

- https://www.seeedstudio.com/Motor-Shield-p-913.html
- Motor Shield V2.0 Eagle File
- Motor shield V2.1 Eagle File
- Motor Shield 2.0 schematics
- Motor Shield 2.1 schematics
- Motor Shield 2.2 schematics
- Motor Shield Library
- L298 Datasheet
- 78M05 Datasheet

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