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We will be off work from Jan.28th to Feb.9th(UTC+8) for our Spring Festival. All your orders emails during that period will not be processed. We'll get back to you and deal with them on 2014, Feb.10th (UTC+8) so sorry for any inconvenience caused to you and thanks for your understanding in advance! Enjoy your shopping time in our store!

Product Name: Dual H Bridge DC Stepper Motor Drive Controller Board Module L298N for arduino

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Description

Basic Attributes

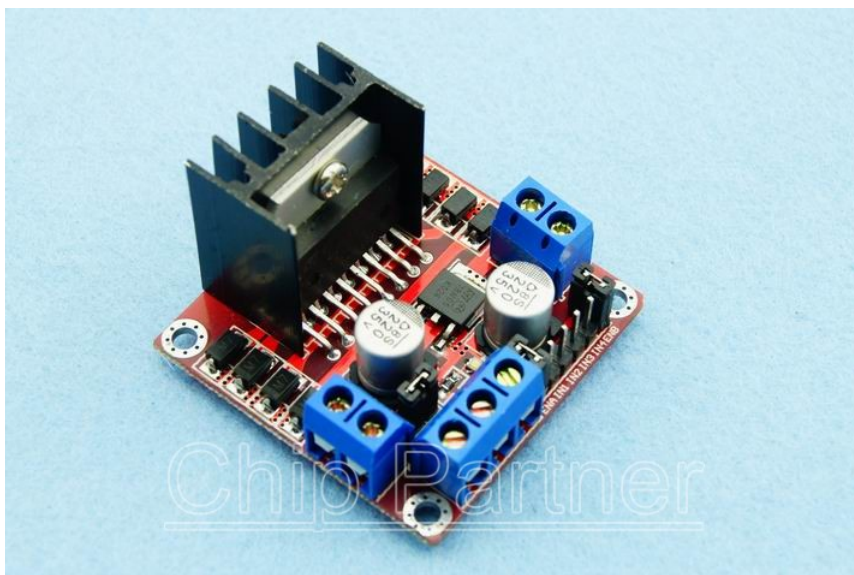
Name	Double H Bridge Motor Driver Module	Working mode	Driven by H bridge (double lines)
Control chip	L298N (ST)	Driving voltage	5V — 35V
Logical voltage	5V	Driving current	2A (MAX single bridge)
Logical current	0mA-36mA	Maximum power	25W
Storage temperature	(-20 °C) — (+135 °C)	Periphery dimension	43*43*27mm
weight	30g		

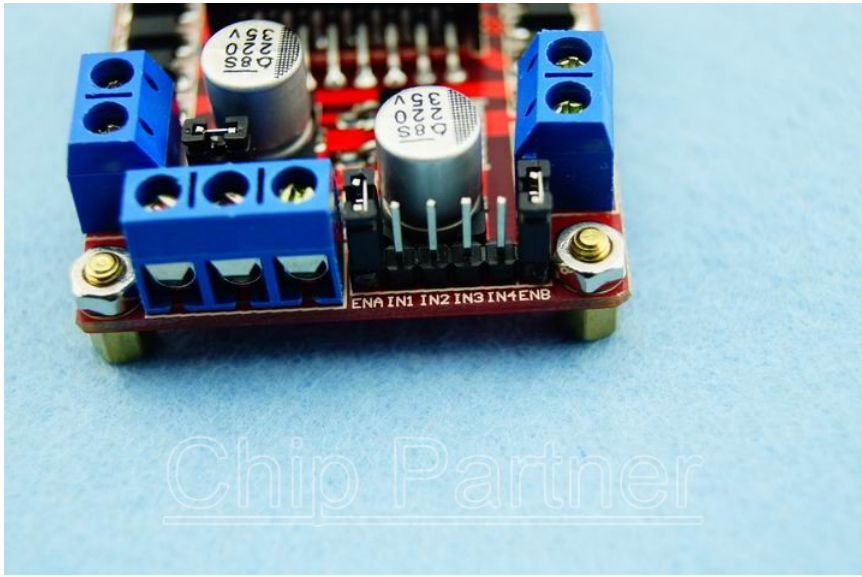
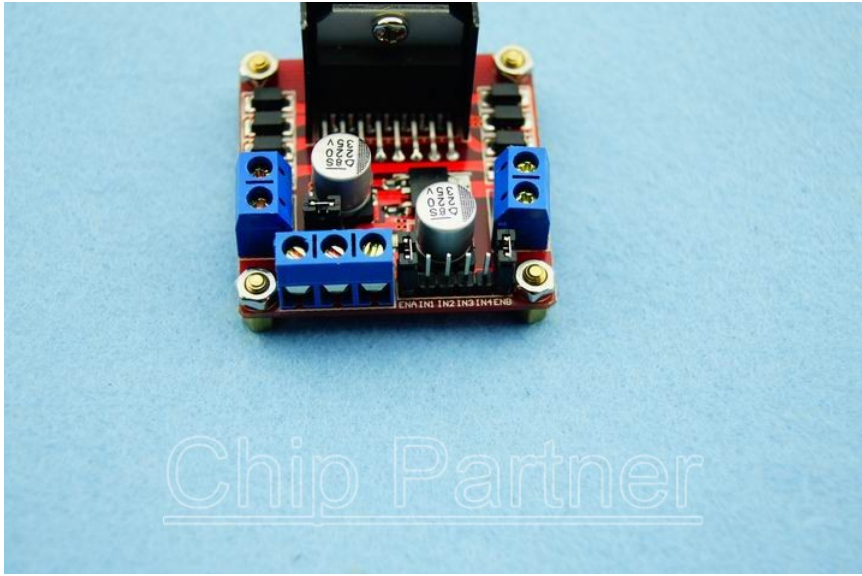


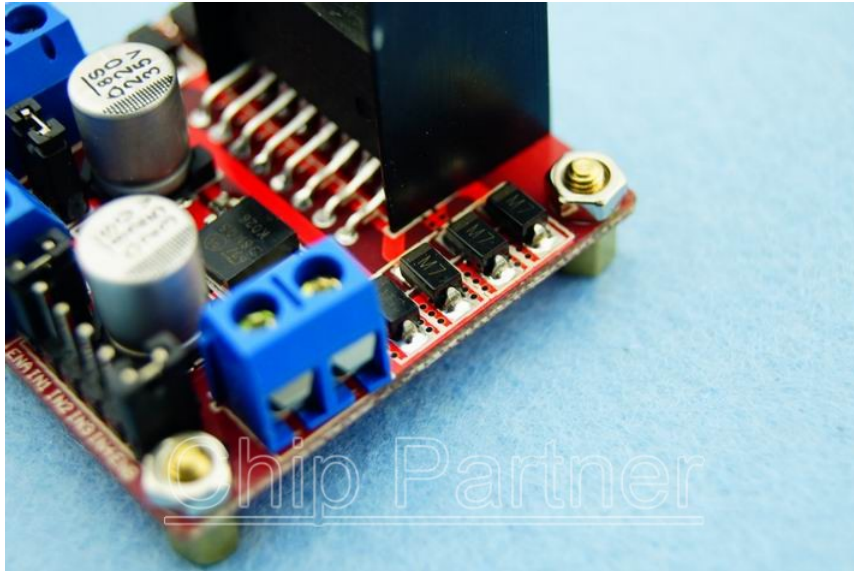
Product features:

1. Using L298N made by ST company as the control chip, the module has such characteristics as strong driving ability, low calorific value and strong anti-interference ability.
2. This module can use built-in 78M05 for electric work via a driving power supply part. But to avoid the damage of the voltage stabilizing chip, please use an external 5V logic supply when using more than 12V driving voltage.
3. Using large capacity filter capacitor, this module can follow current to protect diodes, and improve the reliability.

Real figure:

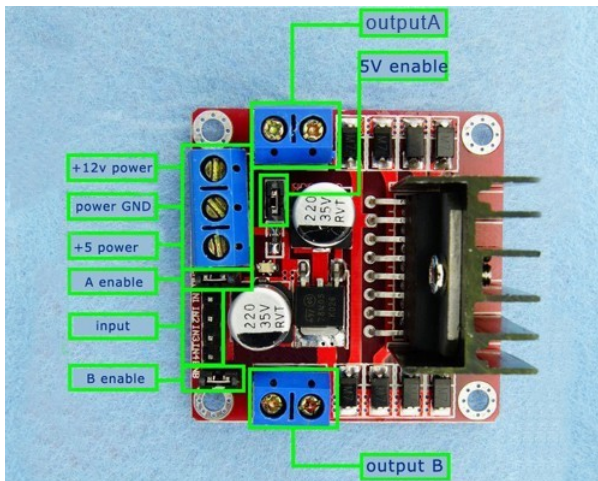




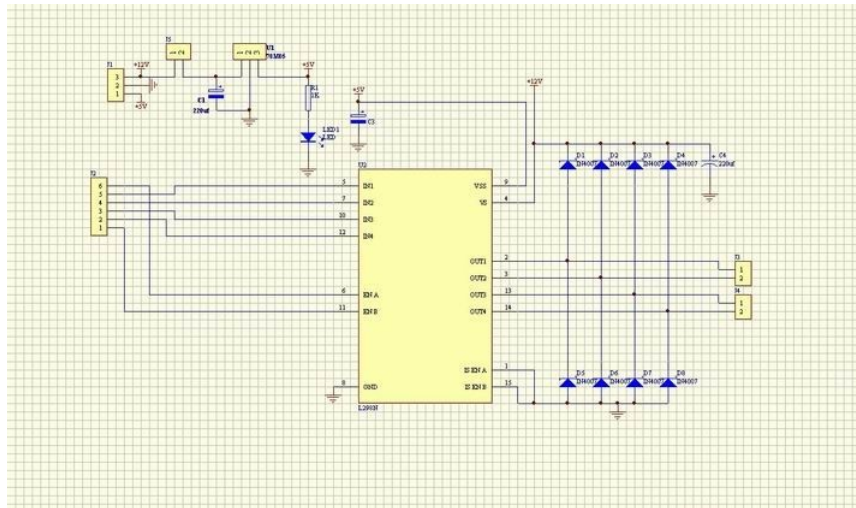


L298N is a kind of high voltage, high current motor driver chip produced by ST company. Having 15 pins as package, this chip has such features as high working voltage (maximum voltage up to 46V), large output current (instantaneous peak current up to 3A, continuous working current 2A) and 25W of rated power. Two built-in H bridge high voltage and large current full bridge drivers can be used to drive the DC motor and stepper motor, relay coil and so on. Using standard logic level signal control, it has two enable control ends. It permits or prohibits device having a logic power supply input without the impact of input signal, which enables the internal logic circuit part works at low voltage. The chip can connect to external detecting resistor to give the variations to the control circuit. Using L298N chip to drive the motor, this chip can drive a stepping motor or four phase stepping motor, and two DC motors as well.

Port function:



Circuit principle diagram:



This module is integrated with a built-in 5V power. When the drive voltage is 7V-35V, it can enable the onboard 5V logic power supply; after the power supply, don't input voltage in the interface +5V power supply, but you can lead the 5V for external use.

when ENA enable IN1 IN2 control OUT1 OUT2
when ENB enable IN3 IN4 control OUT3 OUT4

Applied cases:

1 Driving stepper motor

The connection of driving a common 4 line 2 phase electric motor is shown in below figure after enable ENA ENB
Input the following driving timing from IN1-IN4, then the speed and direction of the stepper motor can be controlled

stepper motor	signal input	step 1	step 2	step 3	step 4	return to step1
corotation	IN1	0	1	1	1	return
	IN2	1	0	1	1	return
	IN3	1	1	0	1	return
	IN4	1	1	1	0	return
reversal	IN1	1	1	1	0	return
	IN2	1	1	0	1	return
	IN3	1	0	1	1	return
	IN4	0	1	1	1	return

2 Driving DC motor

Because the module is driven by double H bridge, it can drive two motors simultaneously. The connecting method is shown in below figure after enable ENA ENB

You can input the speed and direction of PWM signal drive motor 1 from IN1 IN2
You can input the speed and direction of PWM signal drive motor 2 from IN3 IN4
The signal is shown in the figure

DC motor	rotate	IN1	IN2	IN3	IN4	speed adjust PWM signal	
						end	end
M1	corotation	high	low	/	/	high	/
	reversal	low	high	/	/	high	/
	stop	low	low	/	/	high	/
M2	corotation	/	/	high	low	/	high
	reversal	/	/	low	high	/	high
	stop	/	/	low	low	/	high

Product size:

