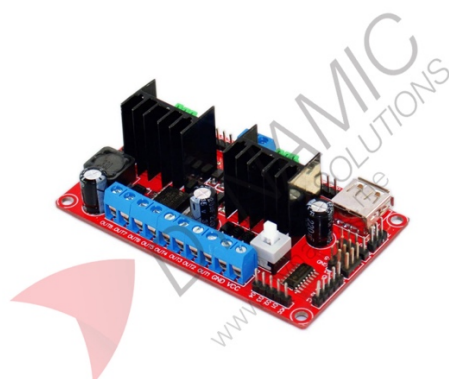


L298N V3 Four DC Motor Driver Module



Features:

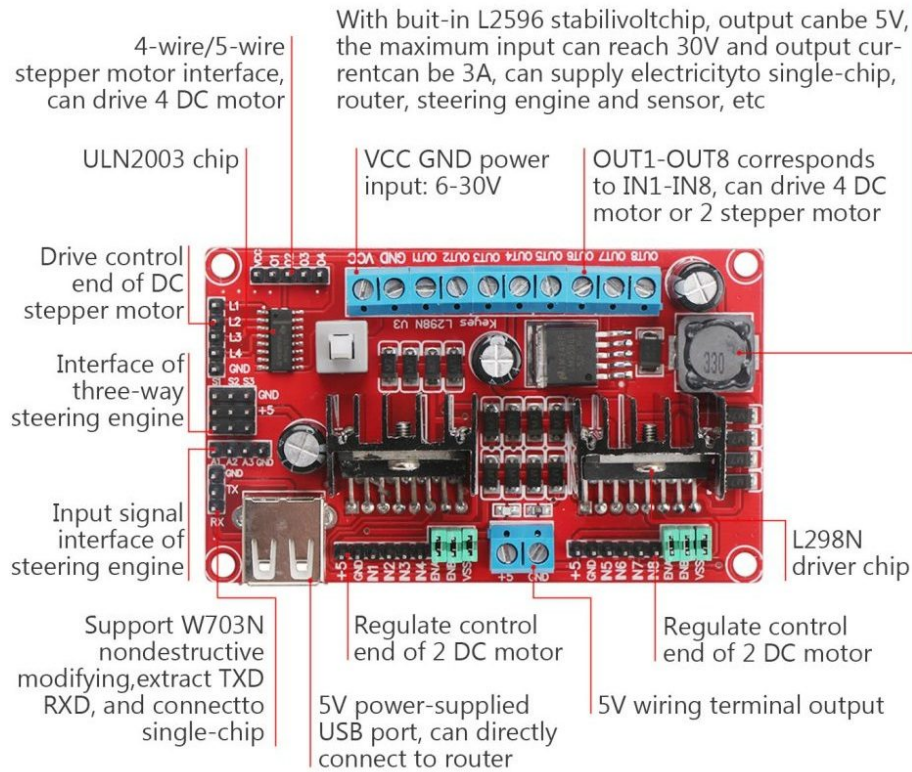
The L298N V3 Four DC Motor Driver Module integrates dual ST L298N H-bridge ICs with an LM2596 switching regulator and ULN2003 driver chip. Designed for robotics and automation projects, it can drive up to four independent DC motors or two stepper motors with PWM speed and bidirectional control. With robust design and support for input voltages up to 30V, the module also provides regulated 5V output for microcontrollers, servos, and sensors. Additional features include USB interface support for W703N WiFi router modification and direct RX/TXD communication for embedded projects.

Specifications	
Driver ICs	Dual L298N H-bridge, ULN2003 auxiliary driver
Input Voltage (DC)	6V – 30V
Output Current	2A continuous per channel, 4A peak
Logic Voltage	3.3V – 5V (MCU compatible)
Logic Current	0 – 36 mA
Control Logic Levels	Low: -0.3V to 1.5V, High: 2.3V to V _{ss}
Enable Signal	ENA/ENB: Low (disable), High (enable)
Regulator Output	5V, up to 2A (via LM2596)
Motor Support	4 DC motors (PWM speed + direction), 2 stepper motors (2-phase/4-phase)
Additional Functions	Servo control, RXD/TXD breakout, USB power input
Power Dissipation	20W at T=75°C
Operating Temp Range	-25°C to +130°C
Board Dimensions	90 × 54 × 25 mm
Board Weight	67 g

Pinouts:

Pin Name	Type	Description
VCC	Power	Motor power input (6–30V DC)
GND	Power	Ground reference
OUT1–OUT8	Output	Motor outputs, connect DC motors or stepper motors
IN1–IN8	Input	Logic control inputs for motor direction/speed
ENA, ENB	Enable	Enable signals for motor channels (active high)
+5V	Power	Regulated 5V output (up to 2A via LM2596) for MCU, sensors, servos
S1–S3	Input	Servo motor signal input pins
USB	Power/Signal	USB port for powering the board or communication with router
RX	Signal	Serial receive line (UART), breakout for router/MCU communication

TX	Signal	Serial transmit line (UART), breakout for router/MCU communication
L1-L4	Input	Stepper motor/logic control lines for ULN2003 auxiliary driver
A1-A3	Input	Additional control/expansion pins (e.g., steering engine or signal interface)



Product Pictures:

