

34747-MD

Quad DC Motor Driver

Dual L298N based module can drive four DC motors at the same time. Built in +5V, 1A regulator to drive motor(s) with a voltage under 5V/1A or you can select an Off board power supply for higher voltage and/or current motors
 Power: 5-7VDC Vcc Input (Internal 5V regulator)
 7-35 Vin Input (External Power Supply)

Peak Drive: 4A

Inputs: from microcontroller

4 Enables (1/Driver) 8 Logic control (2/Driver)

Connections: Terminal Strip for Motors

Terminal Strip for Power

0.1 Pitch Header for Inputs

L: 2-1/4" W: 2-1/16" HT: 1-1/4" WT: .1

ENABLE & INPUT HEADER PINS

IN1	■	■	EN1
IN2	■	■	VCC
IN3	■	■	EN2
IN4	■	■	VCC
IN5	■	■	EN3
IN6	■	■	VCC
IN7	■	■	EN4
IN8	■	■	VCC

NOTE 1 : CHECK Factory Default: EN1-3 are jumpered to Vcc
 Causing All Outputs to be Enabled
 For Control by Controller: Remove Jumper(s) and connect Enable(s) to Outputs on Controller

ENABLE & INPUT TABLES FOR OPERATION

Example for Motor A
 Same applies for All Motors

ENA	IN1	IN2	Description
0	N/A	N/A	Motor A is OFF
1	0	0	Motor A is stopped (brakes)
1	0	1	Motor A is ON
1	1	0	Motor A is ON Reverse
1	1	1	Motor A is stopped (brakes)

Setting EN Low will causes the motor to coast if running

PWM SPEED CONTROL

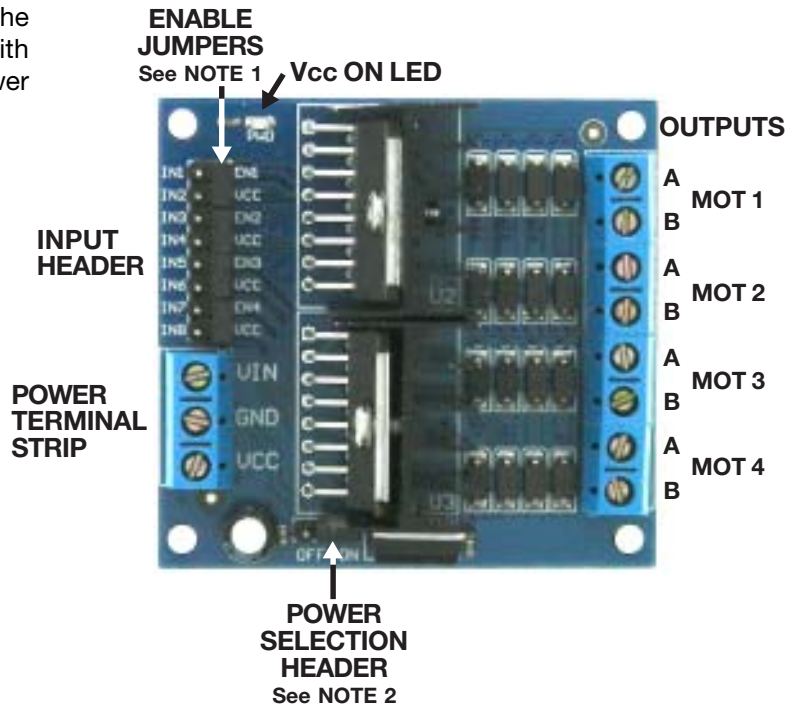
Motor speed can be controlled by connecting microcontroller PWM output Pin(s) to the appropriate EN pin
 By varying the ON time by software, the motor speed can be varied. Recommend that Duty Cycle be <90%

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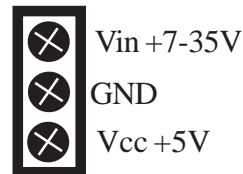
POWER SELECTION HEADER PINS

JUMPER SELECTION

OFF ■ ■ ■ ON

- “ON”:
7-35V Supply to Motors (Vin on Terminal Block)
5V Logic power supplied by on-board regulator (<1A)
- “OFF”:
5V Supply to Motors & Drivers (Vcc on Terminal Block)

POWER TERMINAL ASSIGNMENT



NOTE 2: Vcc terminal can be used to supply +5V to external circuits
When Power is supplied from External 7-35V Supply
And Jumper is set to “ON”