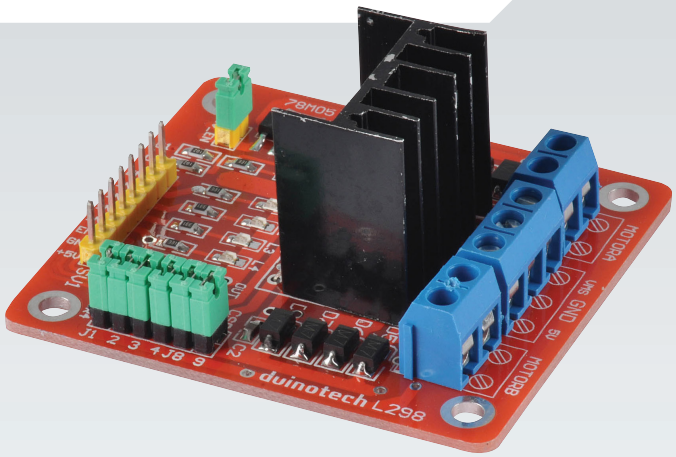
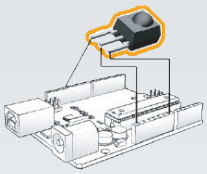
duinotech

XC4492

Dual/Stepper Motor Controller Module



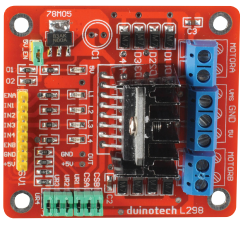


- Type: Module
- Application: Add On Module
- Control the speed of two DC motors or one stepper motor
- Dimensions: 69(L) x 56(W) x 36(H)mm

Specifications	
	Dual/Stepper Motor Controller Module
Maximum Current	4A
Logic Voltage	5VDC
Operating Voltage	3VDC - 30VDC
Chipset	L29BN
Dimensions	69(L) x 56(W) x 36(H)mm
Additional Features	Status LEDs

Pinout		
Module	Duinotech	Function
ENA	D6	Enable Motor A
IN1	D4	Motor A Forward
IN2	D7	Motor A Reverse
IN3	D3	Motor B Forward
IN4	D2	Motor B Reverse
ENB	D5	Enable A
GND	GND	Ground Connection
+5V	5V	5V
VMS	-	Power for Module (up to 30V)
GND	-	Negative Return for VMS

Dual/Stepper Motor Controller Module Sample Projects:



Dual/Stepper Motor Controller Module Overview:

Using the powerful L298N Dual Motor Driver, this module allows full control of two DC Motors or one stepper-motor. Features back-EMF and over-temperature protection, it is ideally suited to drive two-motor robot kits such as our KR3130 & KR3132. An on-board 5V regulator can also be used to power your project.

What is included: 1 x Dual Motor Controller Module

Essential Accessories: Robot Chassis (a or KR3132)

Optional Accessories: Battery Pack to provide power for motors

Did you know: There is a 5V regulator on the module which you can use to power your Duinotech mainboard, just make sure the 5V_EN jumper is in place

Jumper	Function
J9/CSB	Place a current sense resistor between these pins to measure current on channel B, or short with jumper if not using a current sense resistor.
J8/CSA	Place a current sense resistor between these pins to measure current on channel A, or short with jumper if not using a current sense resistor.
J4/UR1	Jumper on to activate 1KOhm pullup resistor on IN4 (usually not necessary if connected to Arduino).
J3/UR2	Jumper on to activate 1KOhm pullup resistor on IN3 (usually not necessary if connected to Arduino).
J2/UR3	Jumper on to activate 1KOhm pullup resistor on IN2 (usually not necessary if connected to Arduino).
J1/UR4	Jumper on to activate 1KOhm pullup resistor on IN1 (usually not necessary if connected to Arduino).
5V_EN	Jumper on to provide +5V power to the board from 5V regulator from VMS supply

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