

Back of the board

Each pin and its function is covered in the table below.

Pin Label	Function	Power/Input/Output	Notes
VM	Motor Voltage	Power	This is where you provide power for the motors (2.2V to 13.5V)

VCC	Logic Voltage	Power	This is the voltage to power the chip and talk to the microcontroller (2.7V to 5.5V)
GND	Ground	Power	Common Ground for both motor voltage and logic voltage (all GND pins are connected)
STBY	Standby	Input	Allows the H-bridges to work when high (has a pulldown resistor so it must actively pulled high)
AIN1/BIN1	Input 1 for channels A/B	Input	One of the two inputs that determines the direction.
AIN2/BIN2	Input 2 for channels A/B	Input	One of the two inputs that determines the direction.
PWMA/PWMB	PWM input for channels A/B	Input	PWM input that controls the speed
A01/B01	Output 1 for channels A/B	Output	One of the two outputs to connect the motor
A02/B02	Output 2 for channels A/B	Output	One of the two outputs to connect the motor

Now, for a quick overview of how to control each of the channels. If you are using an Arduino, don't worry about this too much as the library takes care of all of this for you. If you are using a different control platform, pay attention. When the outputs are set to High/Low your motor will run. When they are set to Low/High the motor will run in the opposite direction. In both cases, the speed is controlled by the PWM input.

In1	In2	PWM	Out1	Out2	Mode
Н	Н	H/L	L	L	Short brake

L	Н	Н	L	Н	CCW
L	Н	L	L	L	Short brake
Н	L	Н	Н	L	CW
Н	L	L	L	L	Short brake
L	L	Н	OFF	OFF	Stop

Don't forget STBY must be high for the motors to drive.