

## 3 Pack Mini 3.5A Dual-H Bridge Motor Driver Module PWM Speed Control Stepper Motor Driver

### Parameters:

**Output channel:** 2 channel  
**Operating voltage:** 7.5-40V  
**Sustained current:** 2.5A  
**Peak current of each channel:** 3.5A  
**Rated output power of each channel for reference:** 30W (12V input), 60W (40V input)  
**Voltage of signal control:** 3-5V  
**Current of signal control in each channel:** 2-5mA  
**Supporting PWM frequency range:** 500HZ-30K (ideally)  
**Supporting PWM duty cycle range:** 0-100%  
**Working temperature:** -20°C~85°C  
**Dimension:** 29\*29\*14mm  
**Weight:** about 9.4g

#### A-way Control Signal Logic Truth Table

IN A1=1/PWM	IN A2=0	motor forward rotating/speed adjustment
IN A1=0	IN A2=1/PWM	motor reversal rotating/speed adjustment
IN A1=1	IN A2=1	motor brake
IN A1=0	IN A2=0	low consumption stand by

#### B-way Control Signal Logic Truth Table

IN B1=1/PWM	IN B2=0	motor forward rotating/speed adjustment
IN B1=0	IN B2=1/PWM	motor reversal rotating/speed adjustment
IN B1=1	IN B2=1	motor brake
IN B1=0	IN B2=0	low consumption stand by

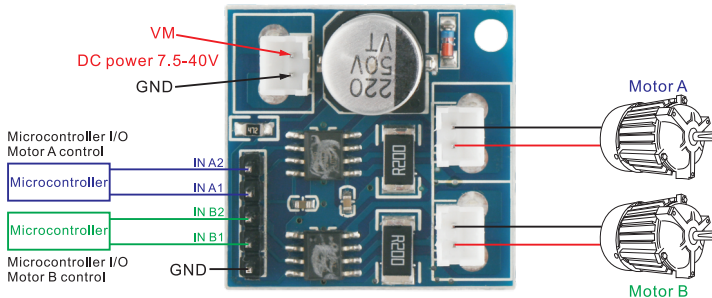
#### Note:

1 means high electric level, 0 means low electric level, PWM duty cycle means to adjust duty cycle and change speed.

IN A1 and IN A2 are for controlling MOTOR-A & IN B1 and IN B2 are for controlling MOTOR-B.

INx is for connecting MCU IO or other signal source, MV is for connecting DC positive, GND is for connecting DC negative, MOTOR-A and MOTOR-B are for connecting motors.

### Wiring Instruction:



### Warming Tips:

Never connect positive and negative of power supply reversely, or it will damage the chip permanently. Though there is short-circuit protection on motor's output side, it is also possible to be damaged when at high voltage and high peak current.

Please use low current and low voltage to test this module board first, and then input much higher current and voltage.

When switching forward rotating and reversal, buffering time is needed to prevent internal MOS tube from damaging by strong reverse electromotive force of motor.

Don't connect this module to any device with unsuitable voltage, current for this unit.

### Package Includes:

3 X Motor Driver Module