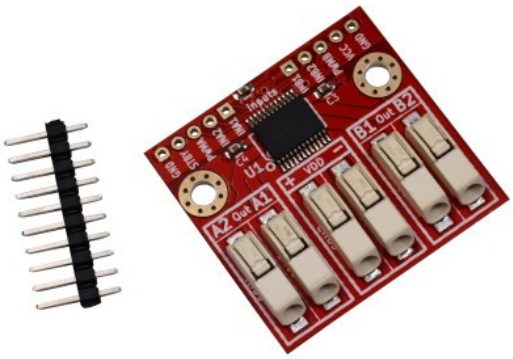

BB-TB6612

User Manual

Rev.1.0 April 2020

olimex.com

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What is BB-TB6612

BB-TB6612 is dual DC motor driver with digital logic working from 2.7 up to 5.5V and motor voltage from 2.5 up to 13.5V

It's perfect for driving small robot cars with MG-06-120 or MG-06-48 with chassis like: ROBOT-3-WHEEL-KIT, ROBOT-2WD-KIT, ROBOT-2WD-KIT2 and ROBOT-2WDL-KIT with 12V battery.

These are BB-TB6612 features:

- Digital logic power supply: 2.7-5.5V
- Motor Power supply: 2.5-13.5V
- Output current 1.2(3A max)
- Output ON 0.5ohm
- Power save mode
- CW/CCW motor rotation
- short brake and stop states
- Thermal shut-down
- operating temperature -20 to 85C
- dimensions: 34 x 34 mm

Software Control modes:

H-SW Control Function

Input				Output		
IN1	IN2	PWM	STBY	OUT1	OUT2	Mode
H	H	H/L	H	L	L	Short brake
L	H	H	H	L	H	CCW
		L	H	L	L	Short brake
H	L	H	H	H	L	CW
		L	H	L	L	Short brake
L	L	H	H	OFF (High impedance)		Stop
H/L	H/L	H/L	L	OFF (High impedance)		Standby

When STBY is 0 the module enter power saving mode and both motors are released as outputs are in high impedance state.

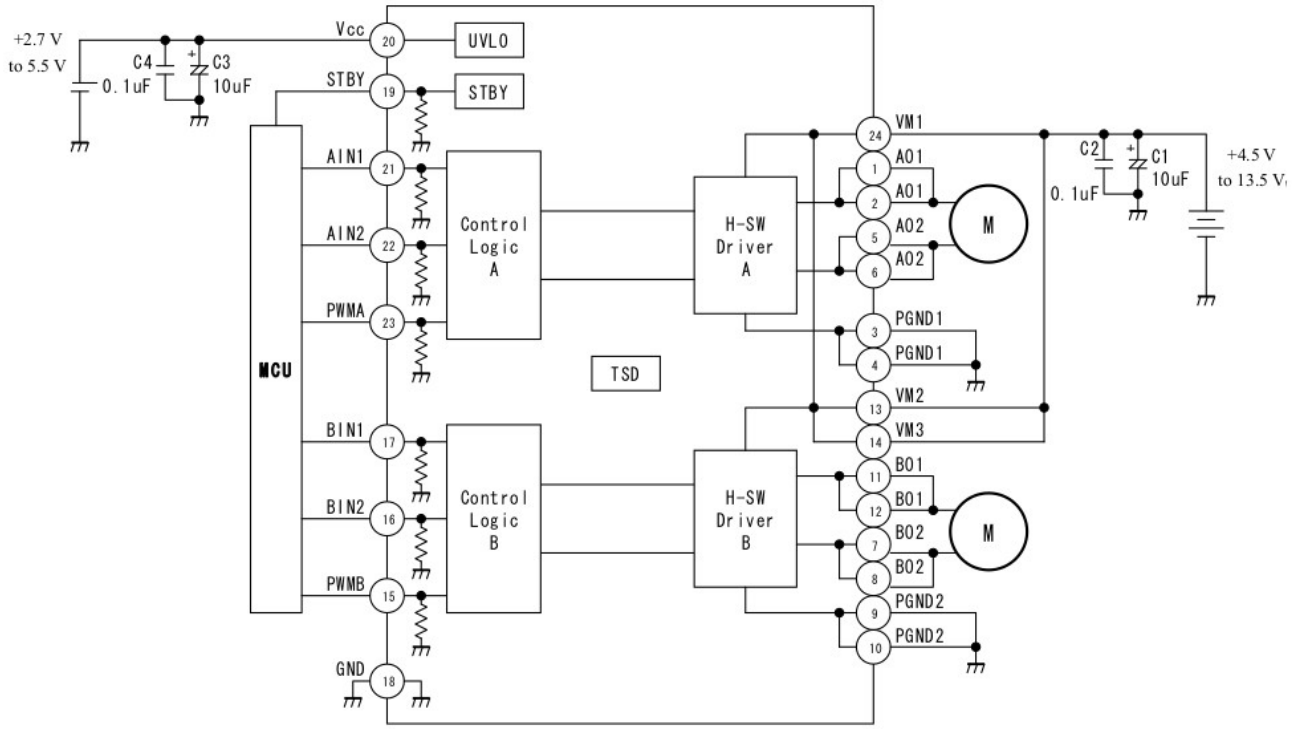
When IN1 and IN2 are High or if PWM is Low the motors are in Short brake state.

If IN1 is High and IN2 is Low motor turns CW (clock-wise).

If IN1 is Low and IN2 is High motor turns CCW (counter-clock-wise).

If IN1 and IN2 are Low the motor is released as outputs are in high impedance state.

Typical wiring is:



Revision History

Revision 1.0 April 2020