

Motor Control Shield



Motor Control Shield, drives DC Motors & Stepping Motors

Overview

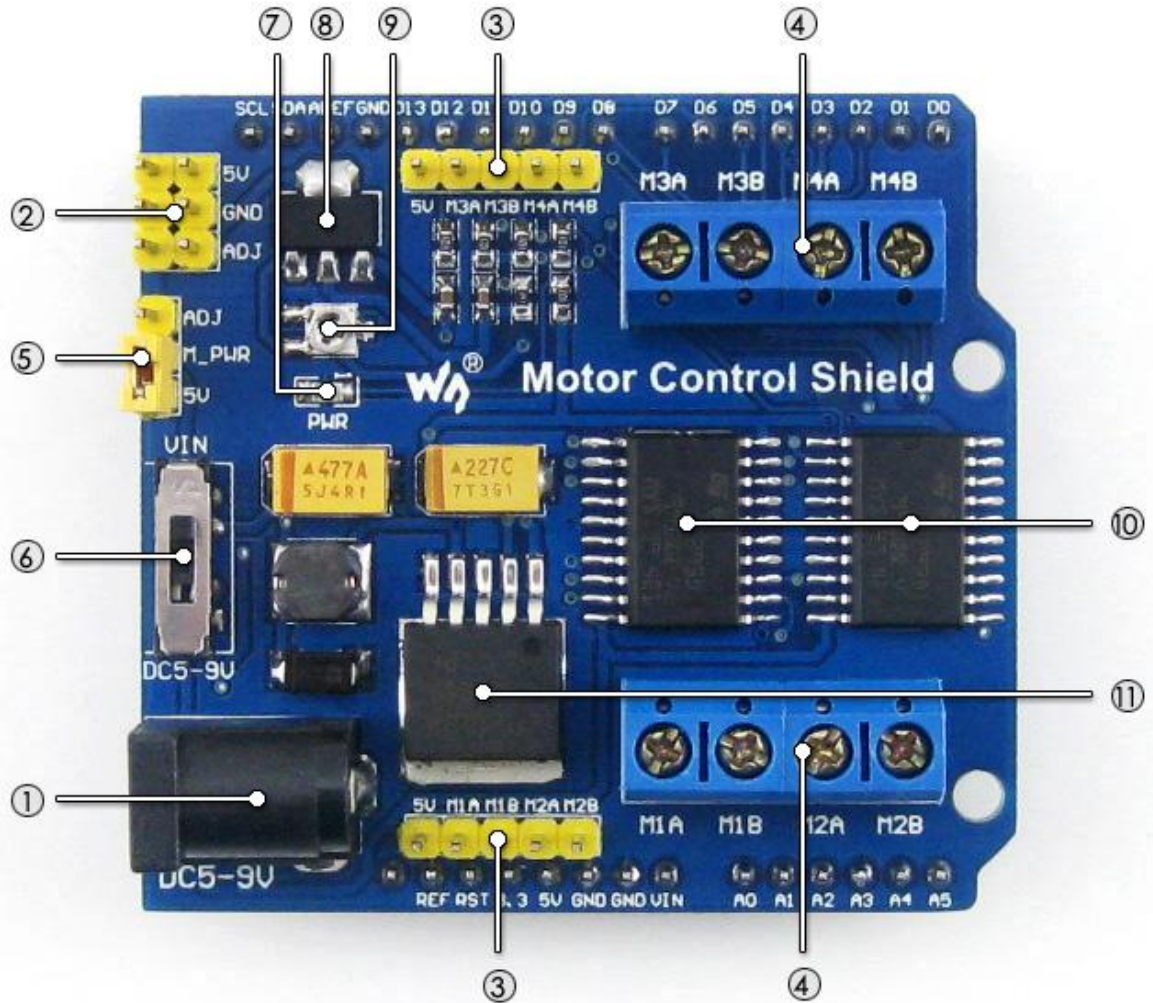
Motor Control Shield is capable of driving 4 DC motors or 2 stepping motors at one time.

Features

- Configurable motor power supply via onboard jumper
 - when using 5V motor power supply : drives four 5V DC motors at one time
 - when using adjustable motor power supply : drives two 1.25V-6.45V DC motors at one time (9V external power supply is required)
- Onboard dual H-bridge driver L293D x 2
 - each L293D can drive 2 DC motors or 1 stepping motor at one time

- totally 4 channel H-bridge, with 600mA output current (peak 1.2A) per single bridge
- ESD protection

What's on Board



1. External power supply jack
2. Power input/output pinheader
3. Stepping motor interface
4. DC motor interface
5. **M_PWR** configuration : connects M_PWR (motor power) to 5V or ADJ
6. Power selection switch
7. Power indicator
8. **AMS1117-ADJ** : onboard linear regulator with adjustable output
9. **Adjustable potentiometer** : for adjusting the output voltage of ADJ (adjustable motor power)
10. L293D : dual H-bridge driver
11. **LM2596-5.0** : onboard linear switching regulator with 5V output

Note : when in operation, it's normal that the onboard motor drivers and regulators generate lots of heat.

Downloads

Development resources: demo codes, schematic, datasheets, etc.

www.waveshare.com/Motor_Control_Shield