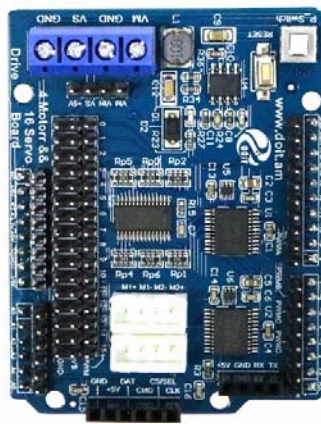


User Manual for 2/4CH Motor Driver



Update

| date | version | content |
|-----------|---------|---------|
| 2017-3-21 | V1.0 | 1st |

Index

User Manual for 2/4CH Motor Driver 1

Introduction..... 4

Features 4

Usage: 4

Specifications: 4

Appendix..... 5

Introduction

When using this 2/4ch motor driver, which can control 2 pcs or 4 pcs DC motors at the same time, and then is also able to control 16 pcs servo. So, it is the best choice to DIY a smart robot car with robotic arm. And now, this board is already at our shop www.vvdoit.com.

Features

- **Control 2pcs or 4pcs DC motors, and 16pcs servo at the same time;**
- Fully compatible with Arduino board;
- Fully support WiFi DT-06, Bluetooth HC-05, or HC-06, and the PS2 handle;
- It is the best choice to DIY smart tank car chassis, or robot arm.
- Can search the item by AliExpress, Amazon, and our site.

Usage:

- This board can remote control the 2wd/4wd car by using our WiFi module DT-06, or Bluetooth, and PS2;
- Note that, for WiFi and Bluetooth version, needs APP to control the car, and now, the app is just for Android;
- **This board can drive 3-5kg load.**
- Fully compatible with Arduino, which can directly insert UNO board.

Specifications:

- 16ch servos and 4ch DC motor driver board, which use TB6612 to drive 4ch DC motor, and PCA9685 is used to control 16ch servo.
- Having Arduino UNO I/O pins;
- Max power 15V/DC;
- Having Bluetooth and WIFI interface;
- Have PS2 interface;
- 4 DC motor driver, and the single max current is 1.2A(mean)/3.2A(peak);
- 16ch servo, and the jumper to change the servo and motor working voltage:

① Input power:

Motor power (VM) : 4.5V~36V, can work separately;

Servo power (VIN) : 5~18V, can work separately;

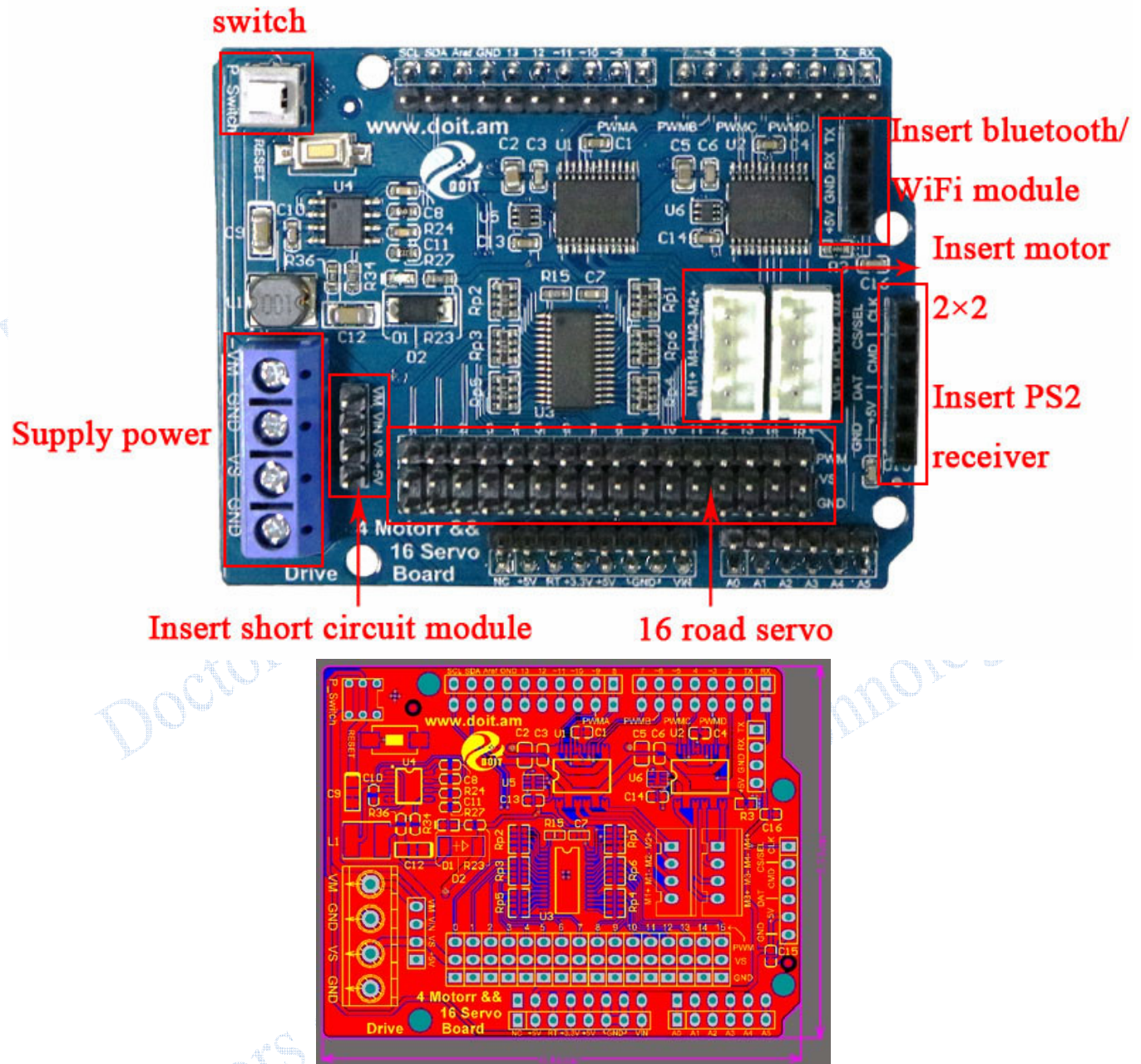
② Work separately

Cut off VM and VIN, (separately control motor, 6-36v);

Cut off VS and VIN, (separately control servo, 6-18v);

Short VM and VIN, short VS and 5V, to control motor (6~18V) and servos (5V).

Note: prohibit inversion for the power positive and negative, or will built out the board. Same as the WiFi module, Bluetooth, and PS2.



Appendix.

From DOIT

| | |
|------------------------|---|
| Official site | www.doit.am |
| Chinese book | <i>ESPduino 智慧物联开发宝典</i> |
| Online shop | www.smartarduino.com |
| Forum | https://github.com/SmartArduino/SZDOITWiKi/wiki |
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