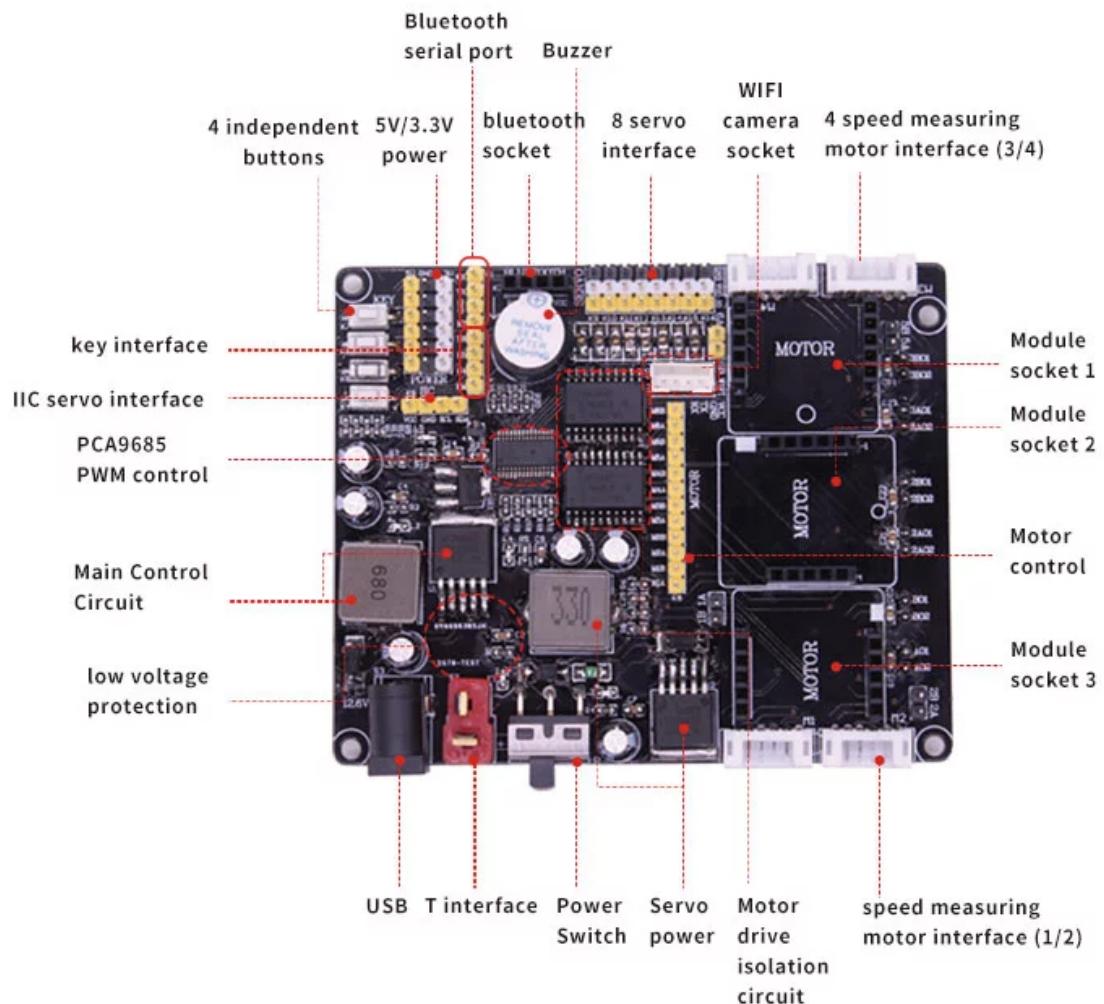
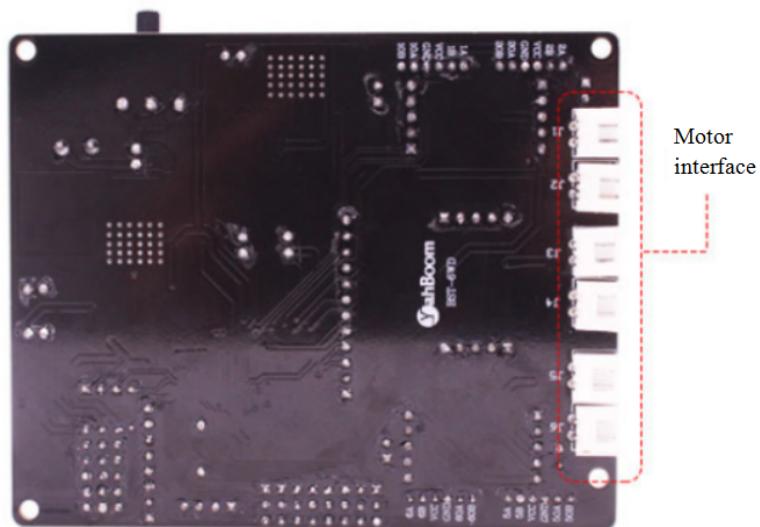


6WD expansion board manual

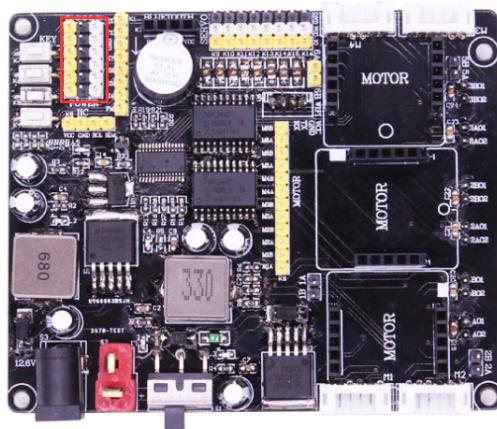
Front:



Back:



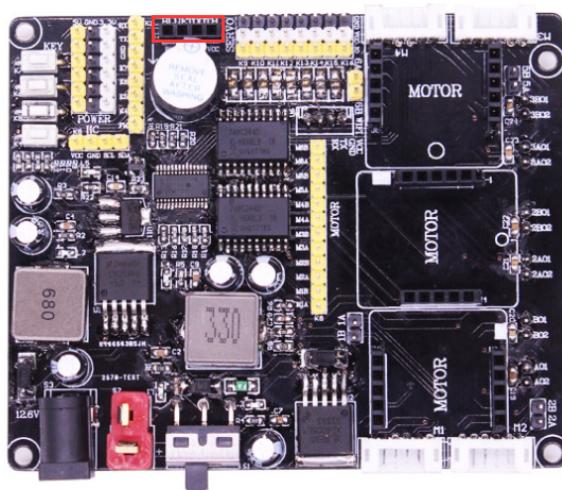
1. 5V/3.3V Power supply



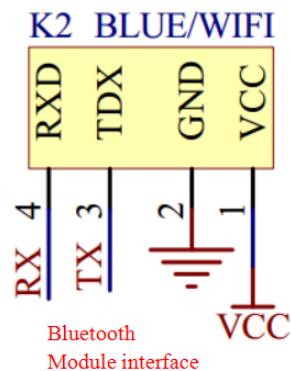
1-1 Position

Here you can switch the voltage supply of 5V and 3.3V. If the jumper cap is used to connect the left two pin headers, it is 5V power supply; if the right two pin headers are connected, it is 3.3V power supply.

2. Bluetooth module interface



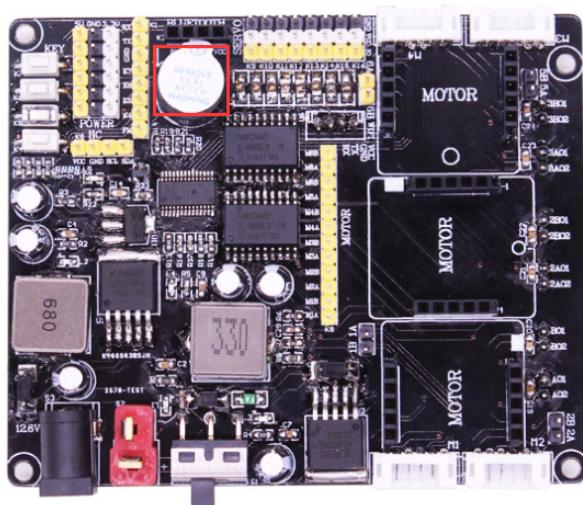
2-1 Position



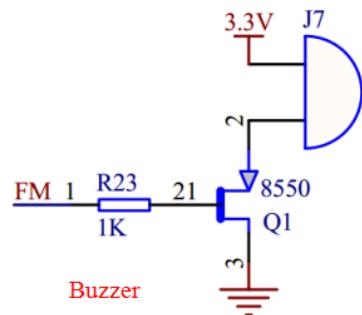
2-2 Schematic diagram

The interface has four pins: VCC, GND, TX, RX. VCC is 5V under normal operating conditions.

3. Buzzer



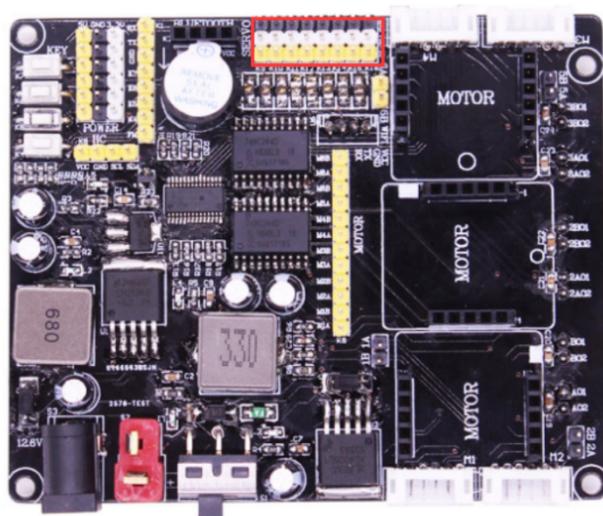
3-1 Position



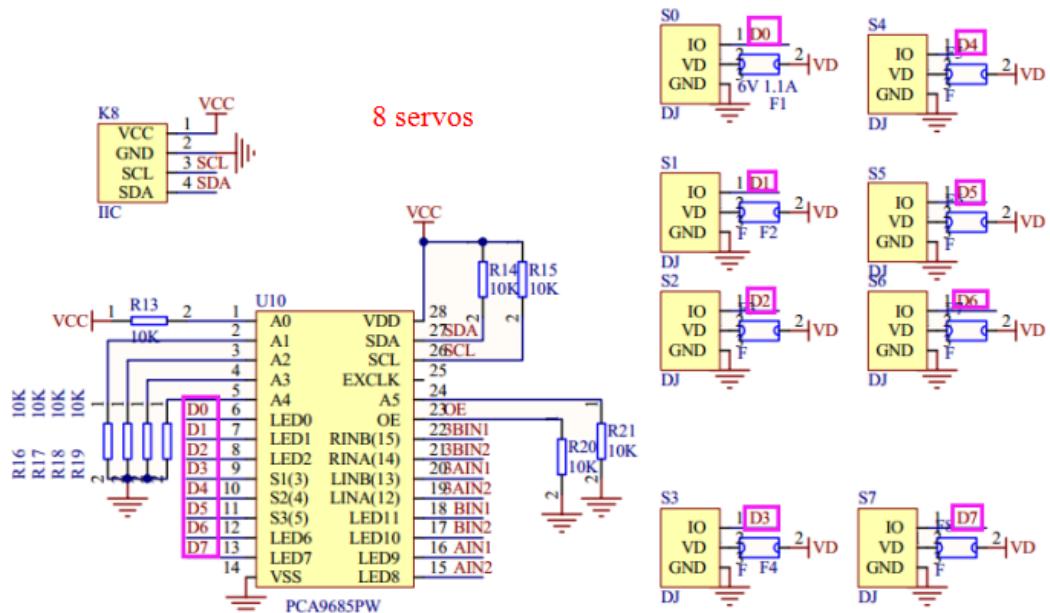
3-2 Schematic diagram

Active buzzer is used here.

4. Servo interface



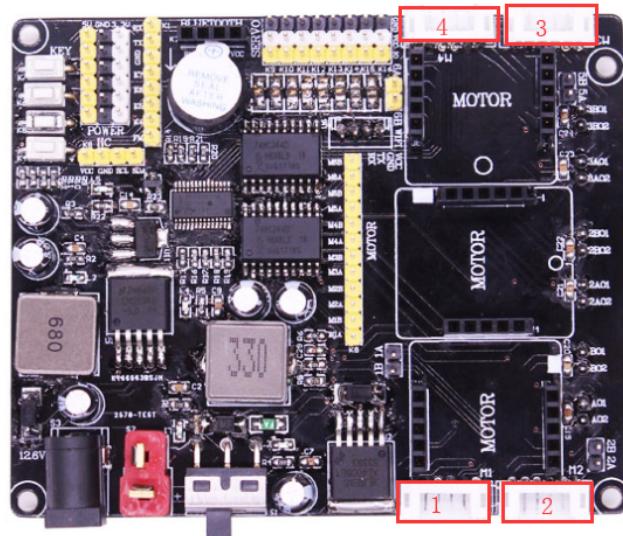
4-1 Position



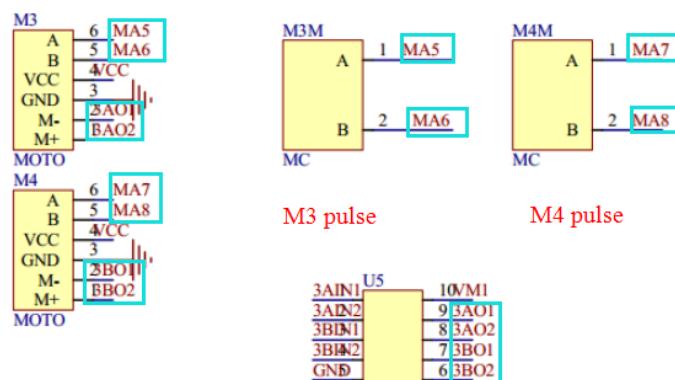
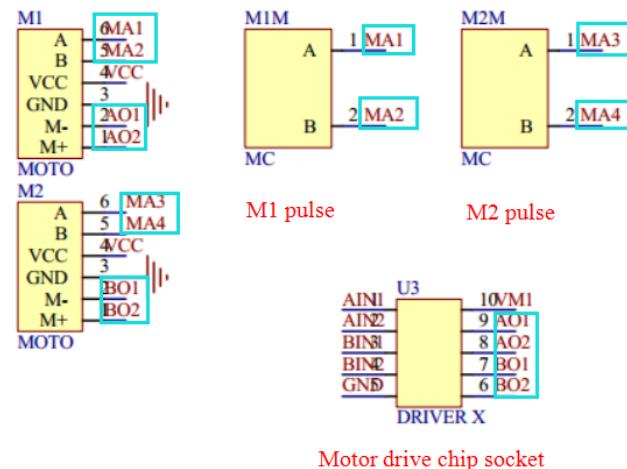
4-2 Schematic diagram

The expansion board uses the I2C external drive chip PCA9685 to control the servo, which can support independent control of the 8 channels servo.

5. Motor interface with speed dial



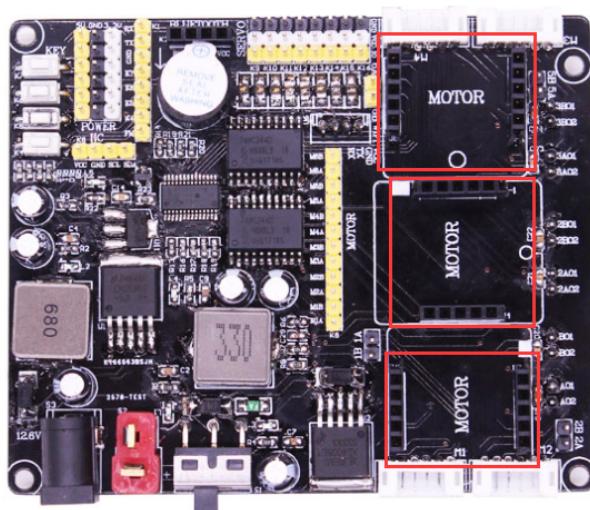
5-1 Position



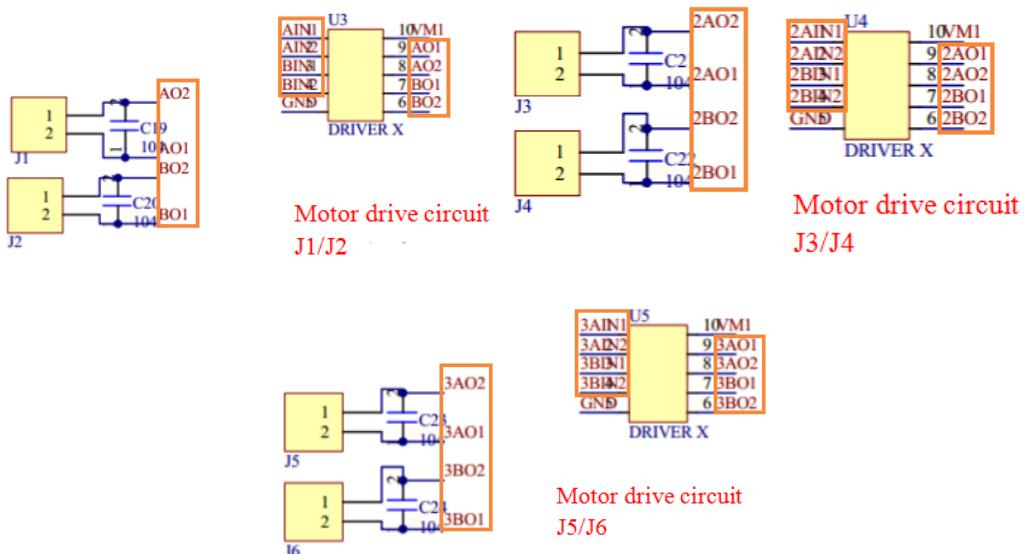
5-2 Schematic diagram

The expansion board has 4 motor interfaces with speed dials, each of which can measure speed, control, speed and stop separately.

6. Motor driver module interface



6-1 Position



6-2 Schematic diagram

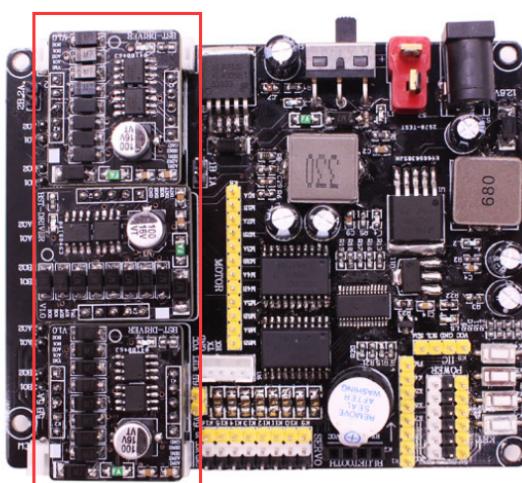
The motor drive module needs to be plugged in. (Buy this expansion board, we will give 3 matching motor drive modules)

Note: The driver module should be installed in the correct orientation to work properly (as shown in Figure 6-4).

The motor interfaces j1, j2, j3, j4, j5, and j6 are on the back of the expansion board.

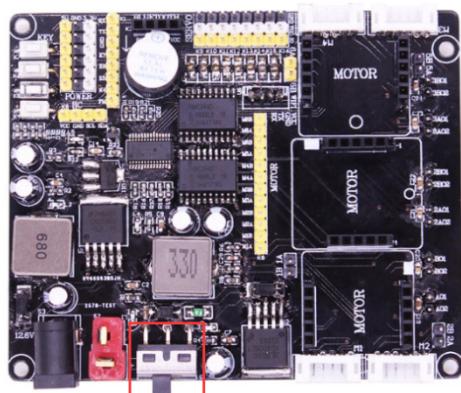


6-3 Front and back of motor drive module



6-4 Driver module installation position

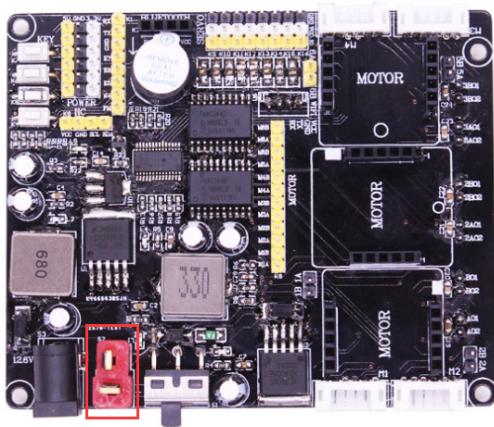
7. Power switch



7-1 Position

It is used to control the expansion board power switch.

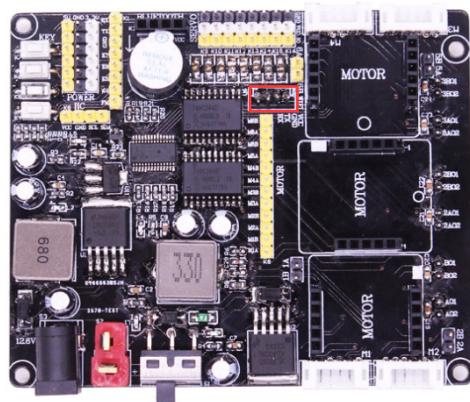
8. T-type power supply interface



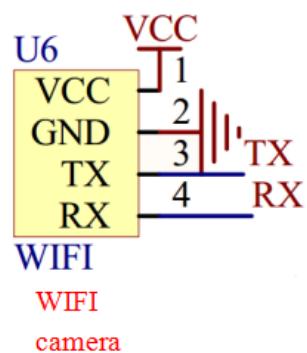
8-1 Position

Connecting the battery that matches the interface could supply power for the expansion board. The expansion board supply voltage must not exceed 12.6v.

9. Camera interface



9-1 Position



9-2 Schematic diagram

The interface has four pins: VCC, GND, RX, TX. Serial port communication mode can be used to connect a serial port camera with WIFI function.