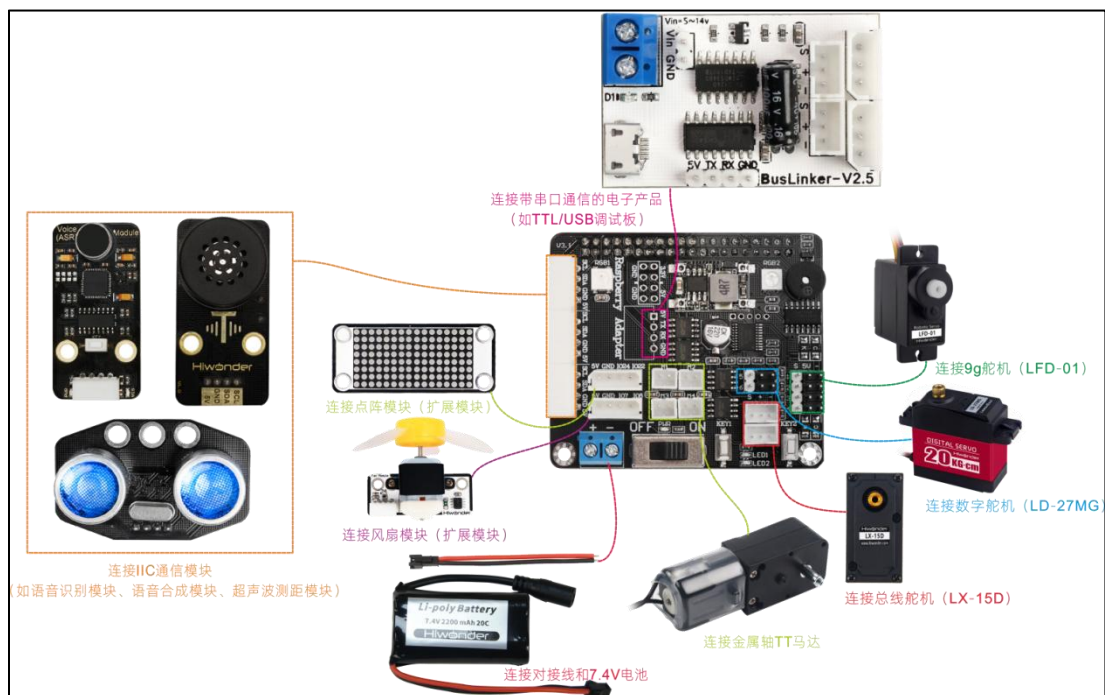# Lesson 3 Notice for Expansion Board

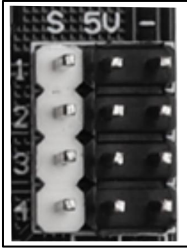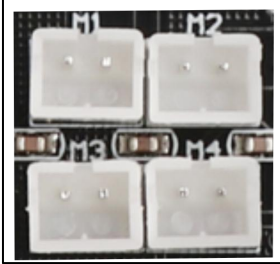## 1. Notice

①　When supplying expansion board power, the red wire should be connected to positive pole and the black wire to negative pole first. The paired wires can not be connected with the lithium battery before connecting to the expansion board, which can avoid short circuit due to the contact between the positive and negative electrodes.

②　During the use of the expansion board, please do not use screwdriver or other metal conductive objects to contact the electronic components on the device to avoid short-circuit damage.

During the use of the expansion board, it is prohibited to plug or unplug devices other than USB and HDMI when they are powered on.

2. Connection Instructions

No.	Position	Function
1		Used to connect PWM servo. The working voltage of servo is DC 5V. **Note:** the negative pole of servo is connected to "-", "5V" to the positive pole and "S" to signal terminal.
2		Used to connect PWM servo, the working voltage of servo is the same as that of external power supply . **Note:** the negative pole of servo is connected to "-", "5V" to the positive pole and "S" to signal terminal.
3		Used to connect bus servo. **Note:** Use 3pin wire with anti-reverse plug to connect.
4		Used to connect TT motor, that is, DC motor. Its working voltage is DC 5V. **Note:** 1. Use 2pin wire with anti-reverse plug to connect 2. When connected, the connection ports are M1-M4 which need to be consistent with test code.

5		Used to connect the external sensors and modules. The interface model is 4264-4AW. **Note:** 1.The working voltage of external sensors and modules must be DC 5V. 2.When connecting, the positive pole of sensors or modules should be connected to "5V", the negative pole to "GND", the signal terminal to "**IO24 IO22**" and "**IO7 IO8**".
6		Used to connect sensors and modules with IIC communication. The interface model is 5264-4AW. **Note:** When connecting, you can choose any one of ports.