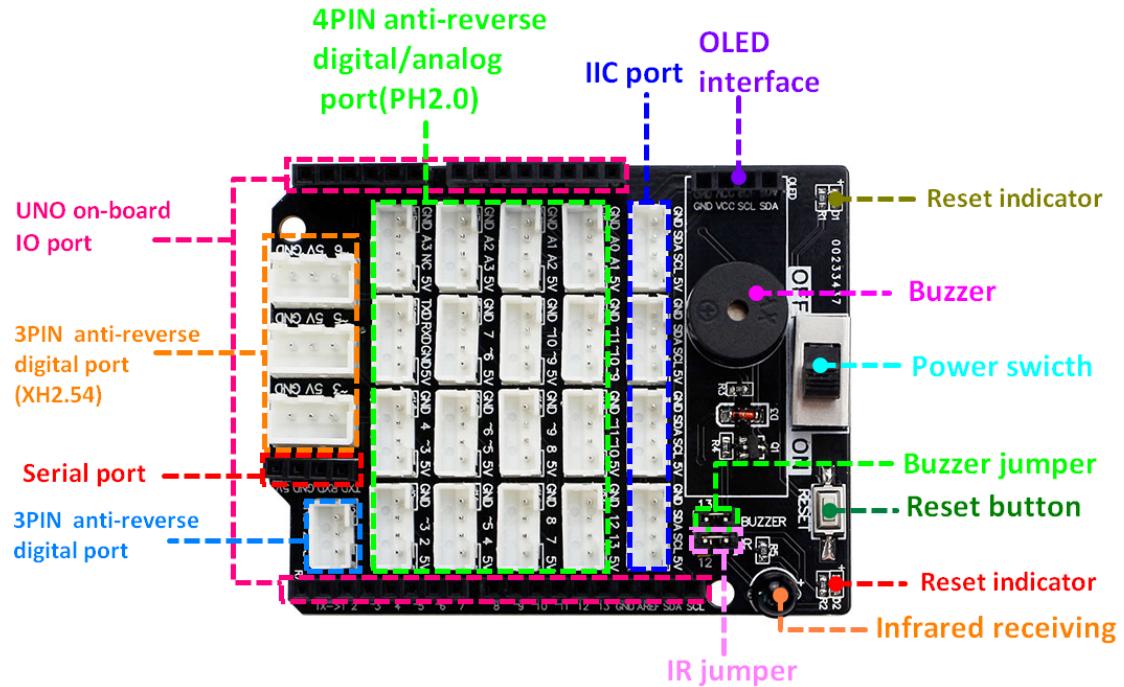


Introduction of UNO sensor expansion board

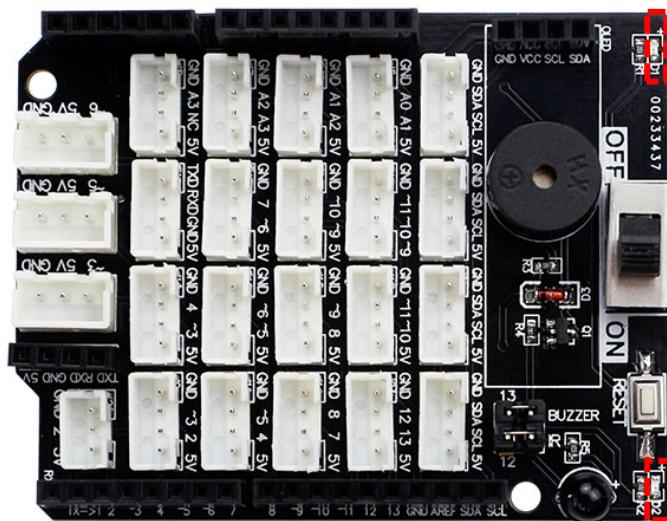


Introduction of On board interface and component:

1. About IO port

The expansion board leads to all on board IO of Arduino UNO, P2~P13 are digital pins, and A0~A5 are analog pins. A4 and A5 are used as IIC pins and are not additionally identified. Each pair of pins is paired with a set of VCC and GND and is designed as a set of 4PIN PH2.0 anti-reverse interface (except for some pins).

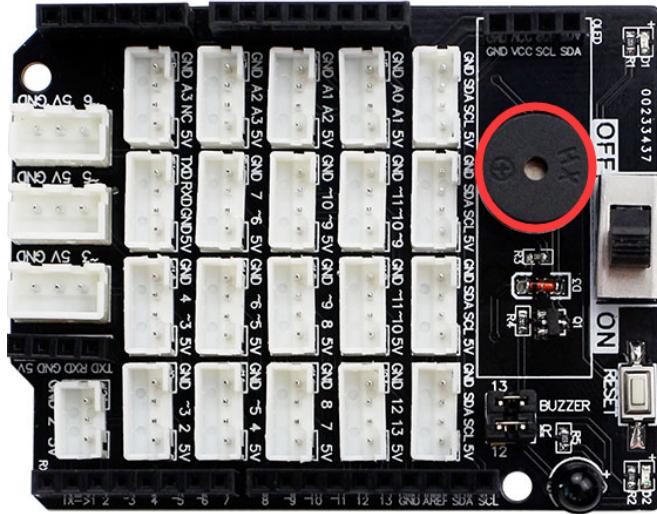
2. LED



D1: Power indicator

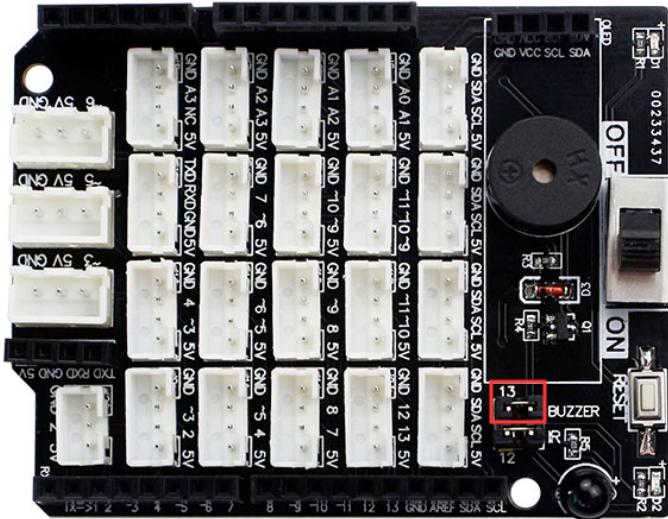
D2: Reset indicator

3. Buzzer

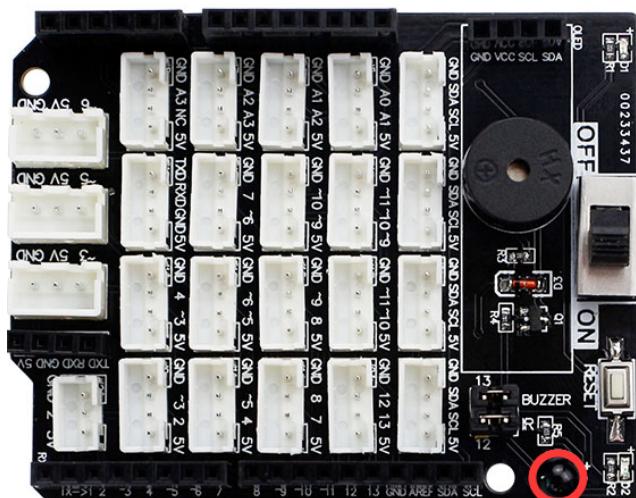


The passive buzzer is used here.

! Note: When we use Buzzer, A jumper cap is required at 13 and BUZZER pin. As shown below.

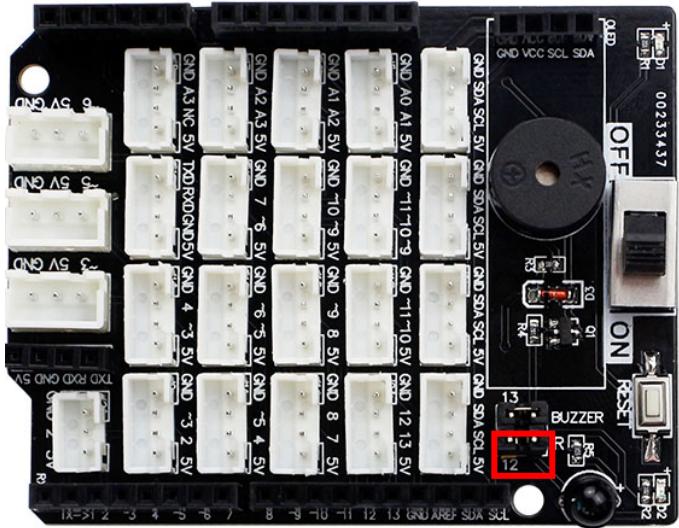


4. IR receiving

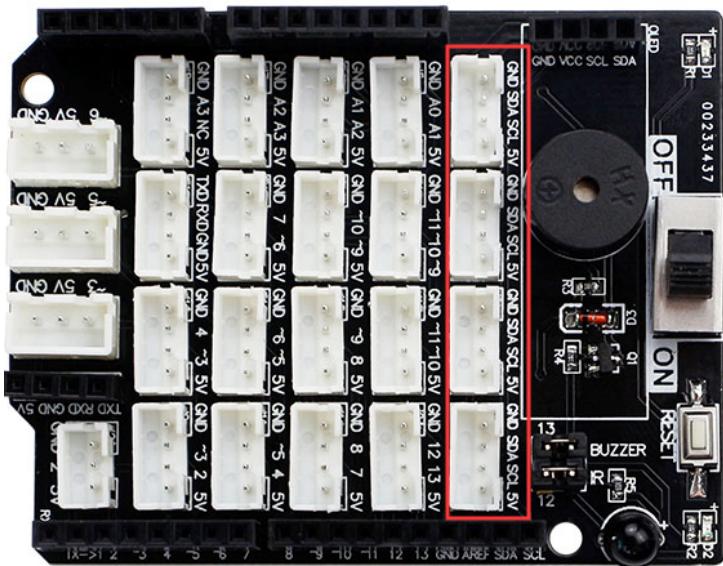


The infrared receiver can be used with an infrared remote control.

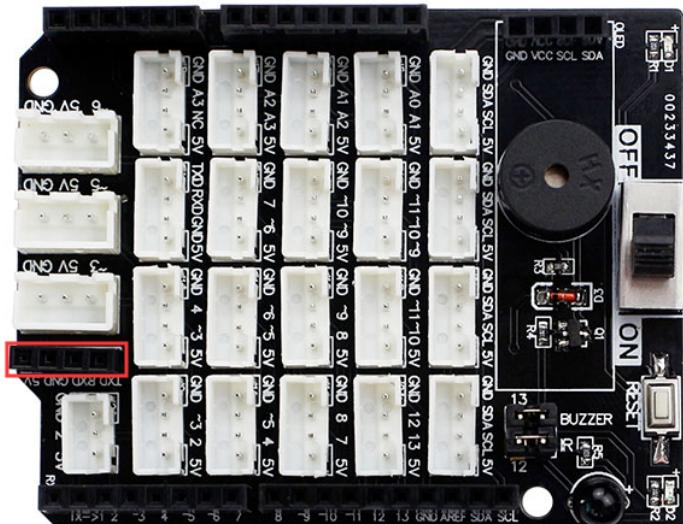
! Note: When we use IR receiving, A jumper cap is required at 12 and IR pin. As shown below.



5. 4 IIC anti-reserve port



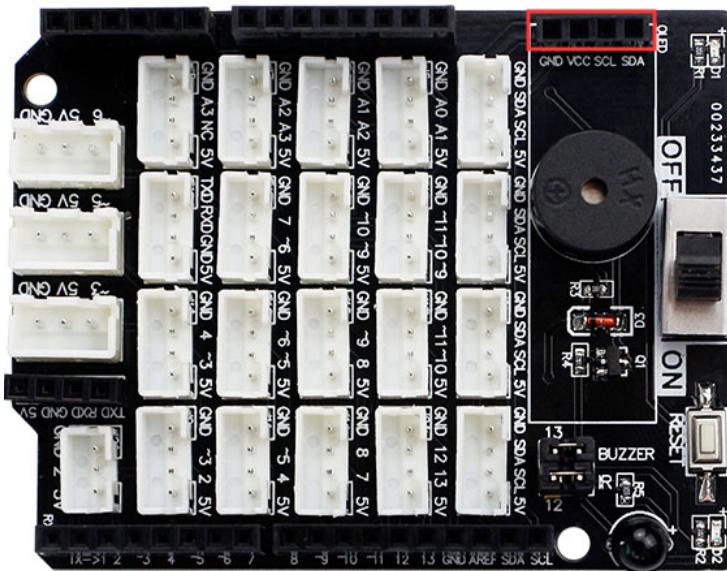
6. Serial port



Pin connection as shown below.

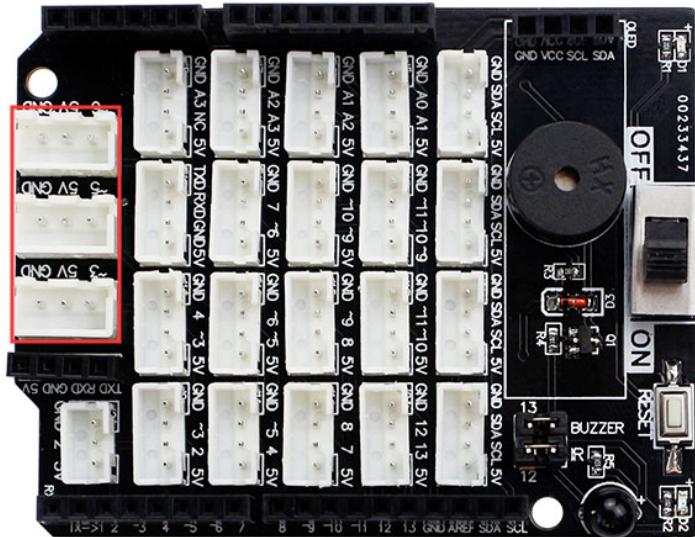
Serial port	UNO board
VCC	5V
GND	GND
RX	0
TX	1

7. OLED display interface



This interface adopt IIC communication, it can connect 12832OLED.

8. Anti-reserve servo interface



! ! ! Note:

When using the USB data cable to power the expansion board through the Arduino UNO, it is not possible to drive multiple servos at the same time, only one servo can be driven.

Brown line of servo connect to GND of servo interface.

Red line of servo connect to VCC of servo interface.

Orange line of servo connect to IO port of servo interface.

9. Power switch



10.RESET button

