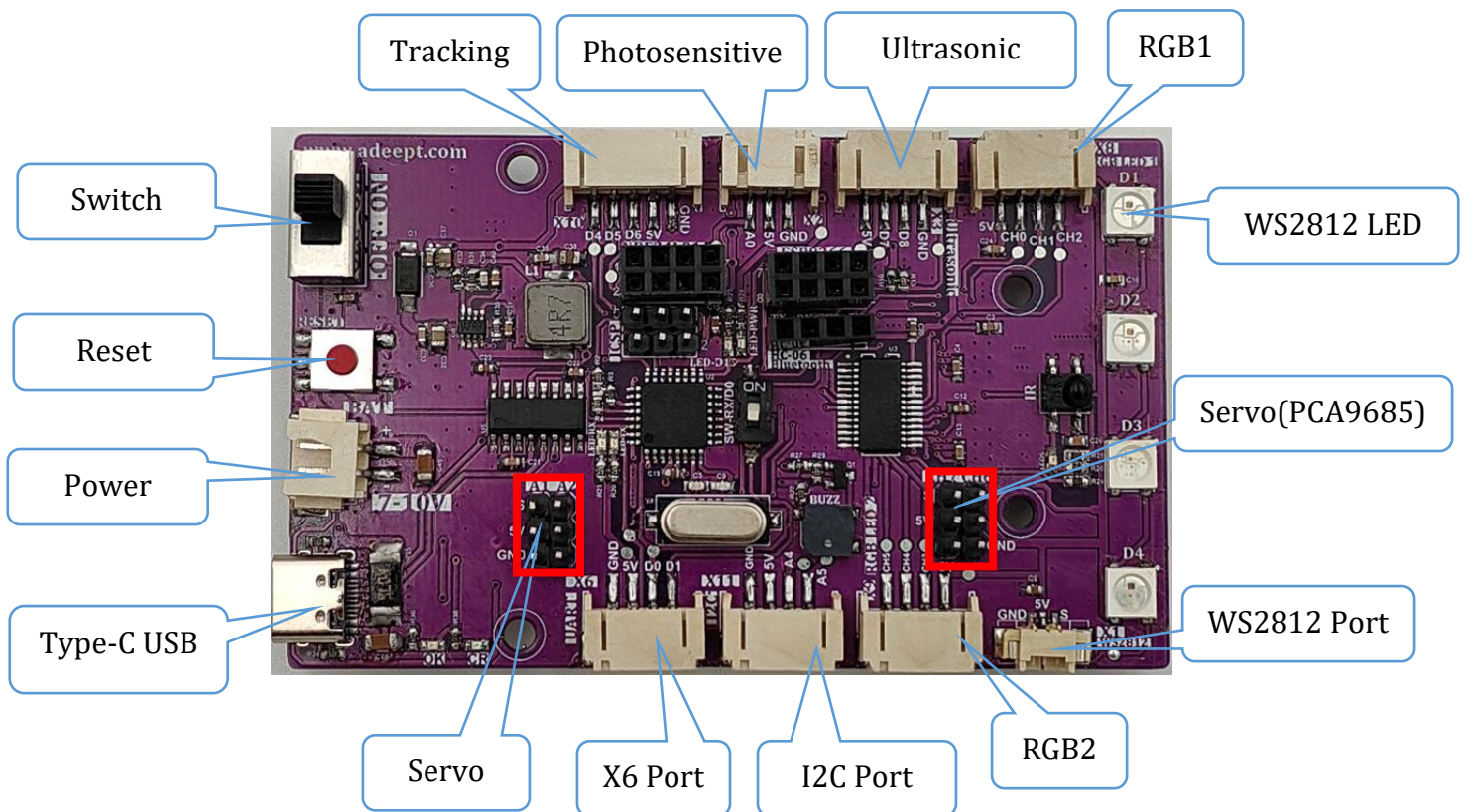
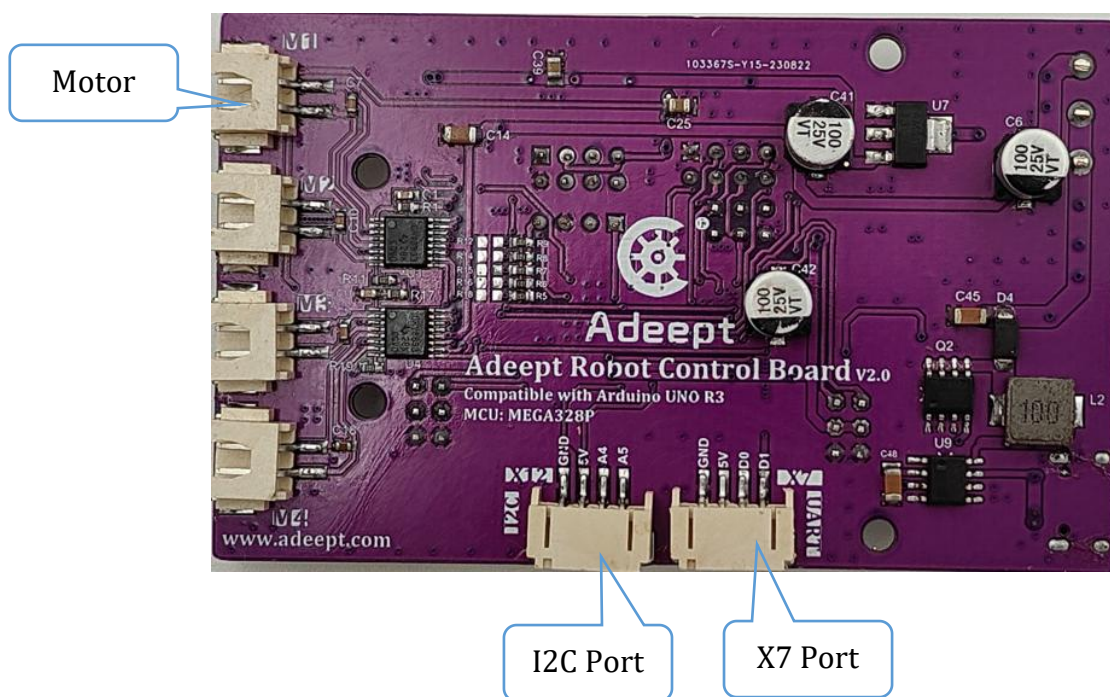
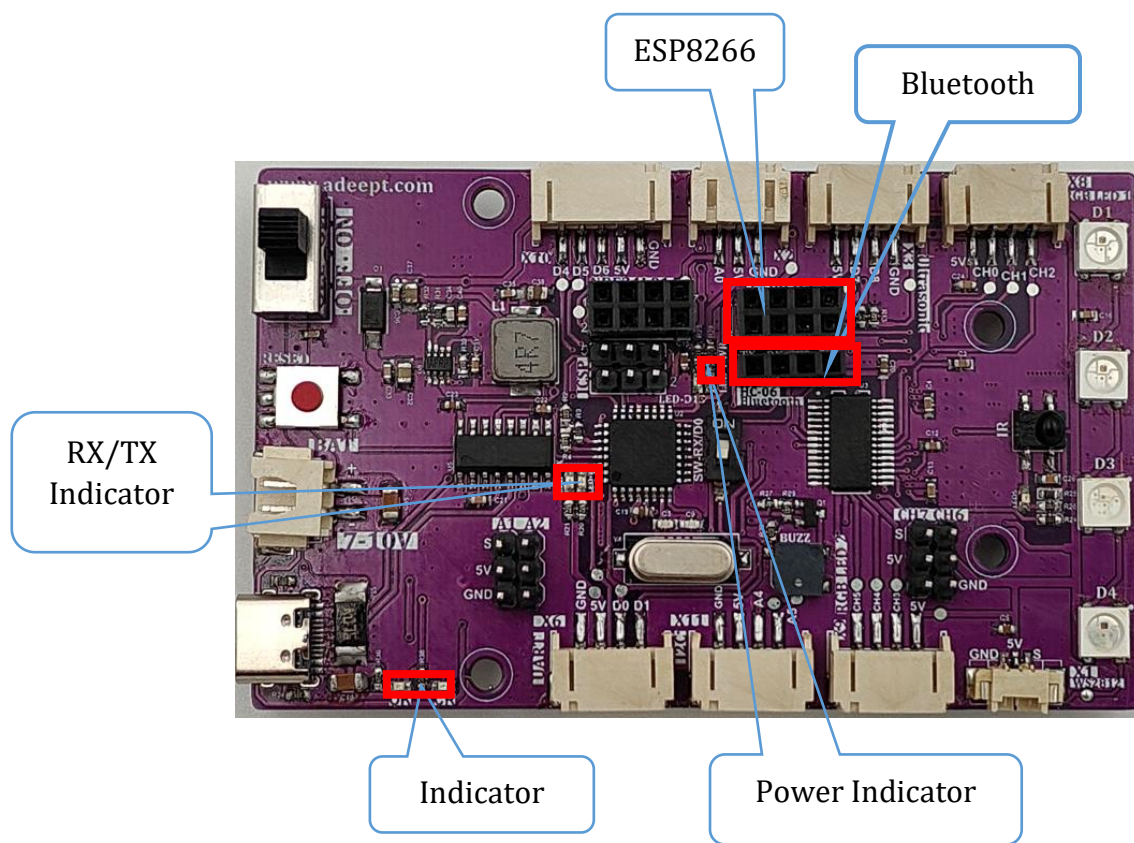


Introduction of Adeept Robot Control Board

The Adeept Robot Control Board development board is the main component of the Kit. Similar to the Arduino UNO development board, it is also an easy-to-use open source electronic prototyping platform, including the hardware part and the software part (Arduino IDE). The Adeept Robot Control Board development board is mainly composed of a microcontroller (MCU), a universal input/output interface, etc. You can understand it as a microcomputer motherboard. We will introduce the Adeept Robot Control Board development board in detail.





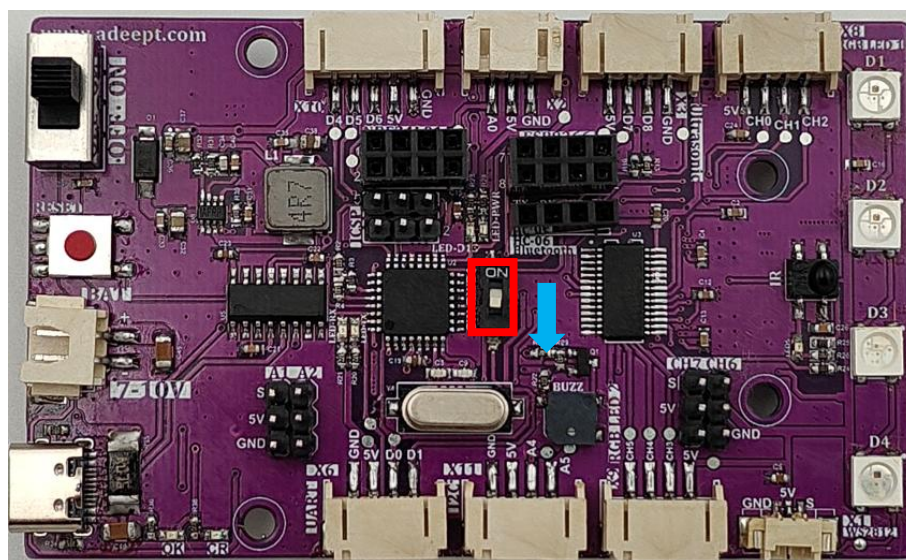
| | Description |
|----------------|--|
| USB port | Upload the program/charge the battery of the power interface. |
| Power | Power interface. Used to power the Adeept Robot Control board. |
| RESET | Restart the Arduino. |
| Switch | Arduino Power ON/OFF. |
| Photosensitive | Used to connect the photoresistor module. |
| Ultrasonic | Used to connect the ultrasonic module. |
| Servo | Servo interface controlled by Arduino pins. |
| Servo(PCA9685) | Servo interface controlled by PCA9685. |
| I2C Port | Used to connect I2C equipment, there are multiple I2C interfaces. |
| RGB | Connect the RGB module. |
| WS2812 LED | 4 WS2812 LED modules onboard. |
| WS2812 Port | WS2812 extension port. Used to expand the number of WS2812 LEDs. |
| Motor | Used to connect motors. 4 motor ports M1, M2, M3, M4. |
| Tracking | Used to connect Line Tracking module. |
| X6/X7 Port | Arduino serial interface. |
| ESP8266 | Used to connect ESP8266 module. |
| Bluetooth | Used to connect Bluetooth module. |
| Indicator | Battery charging indicator light, red light is on when the battery |

| | |
|-----------------|---|
| | is connected and charging. Green light is on when the battery is not connected or the battery is fully charged. |
| Power Indicator | Arduino chip power indicator. When the light is on, it means that the Arduino chip is powered. |
| RX/TX Indicator | When ESP8266 transmits signal to Arduino, RX/TX LED will blink. |

Note:

The Dx/Ax marked on the interface is directly connected to the Dx/Ax pin of Arduino. The CHx on the interface is a pin extended by the PCA9685 chip.

If you install the ESP8266 module to the Adeept Robot Control Board, you need to make sure that the paddle of the RX/D0 switch is down every time you upload the program.



Every time you use the ESP8266 module to communicate with the Adeept Robot Control Board, you need to ensure that the paddle of the RX/D0 switch is at the top.

