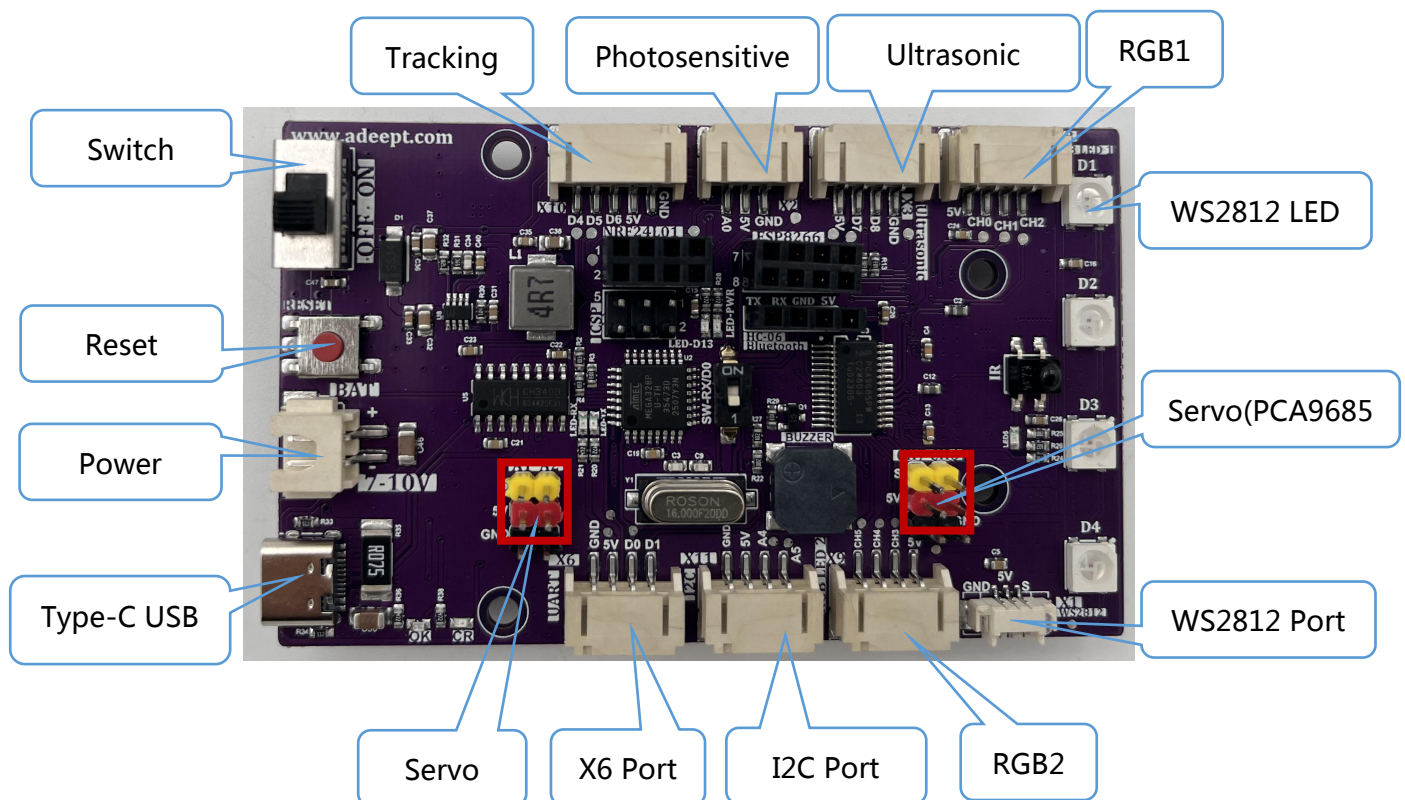
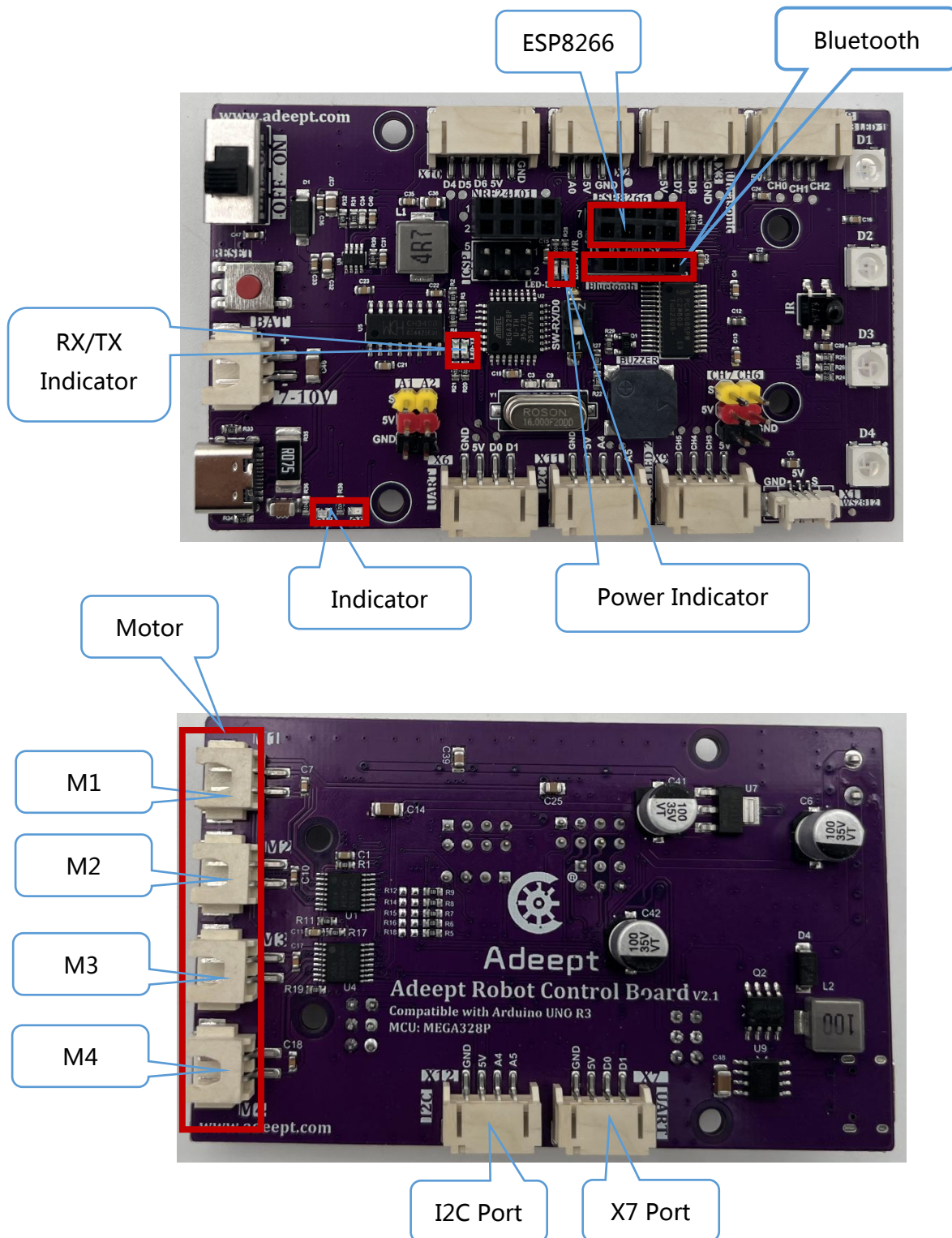


Lesson 1 Introduction to the Adeept Robot Control Board

1.1 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.





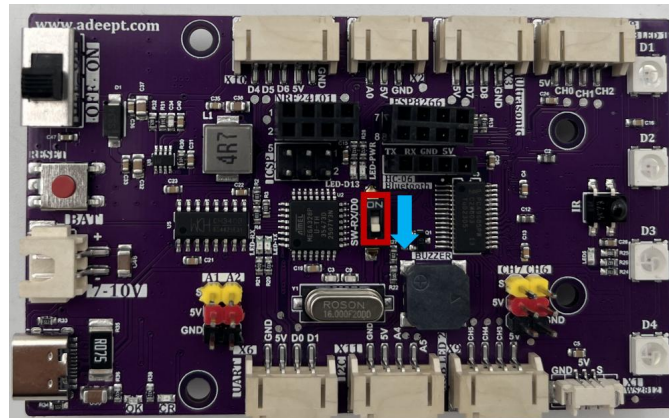
	Description
USB port	Upload the program/charge the battery of the power interface.
Power	Power interface. Used to power the Adeept Robot Control board.
RESET	Restart the Arduino.
Switch	Arduino Power ON/OFF.
Photosensitive	Used to connect the photoresistor module.
Ultrasonic	Used to connect the ultrasonic 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.

1.2 Precautions for Using the Adeept Robot Control Board

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.

