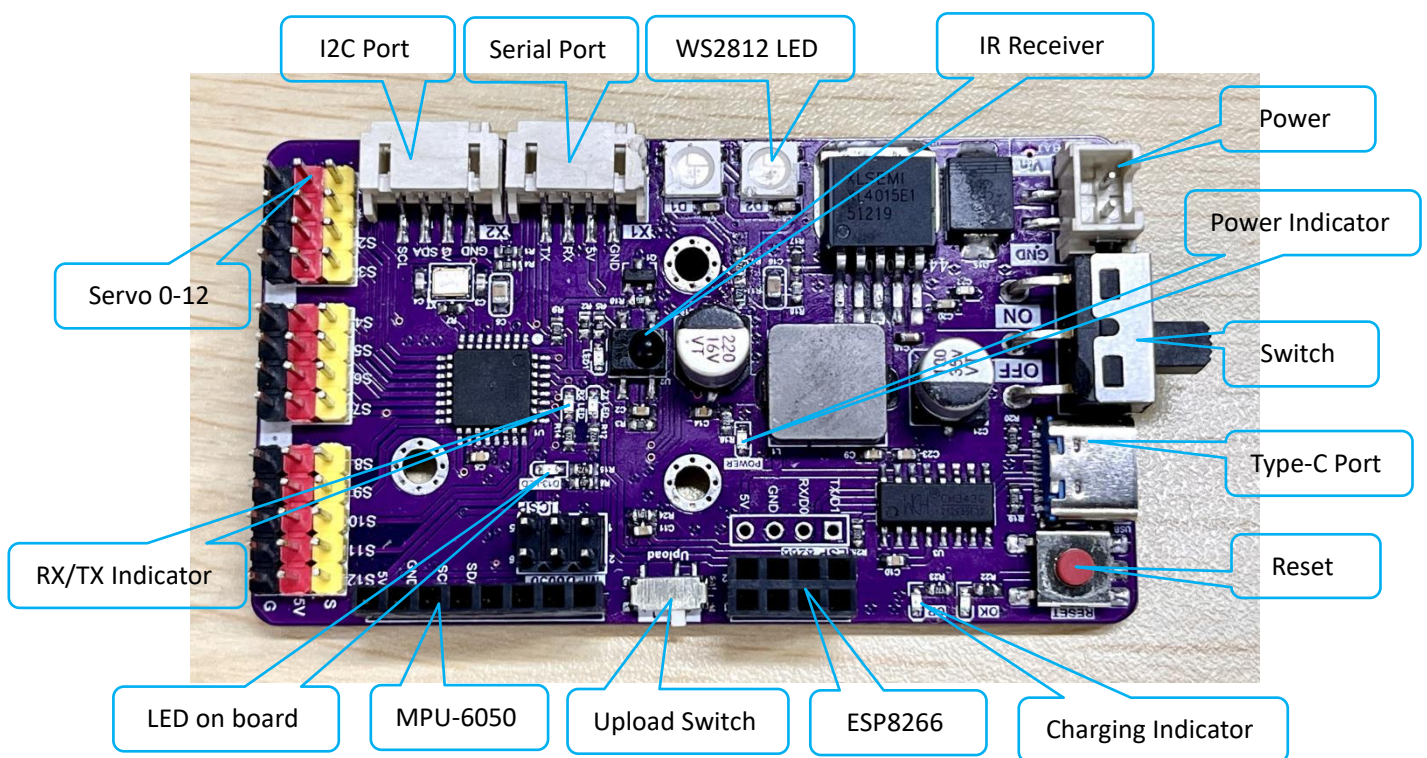
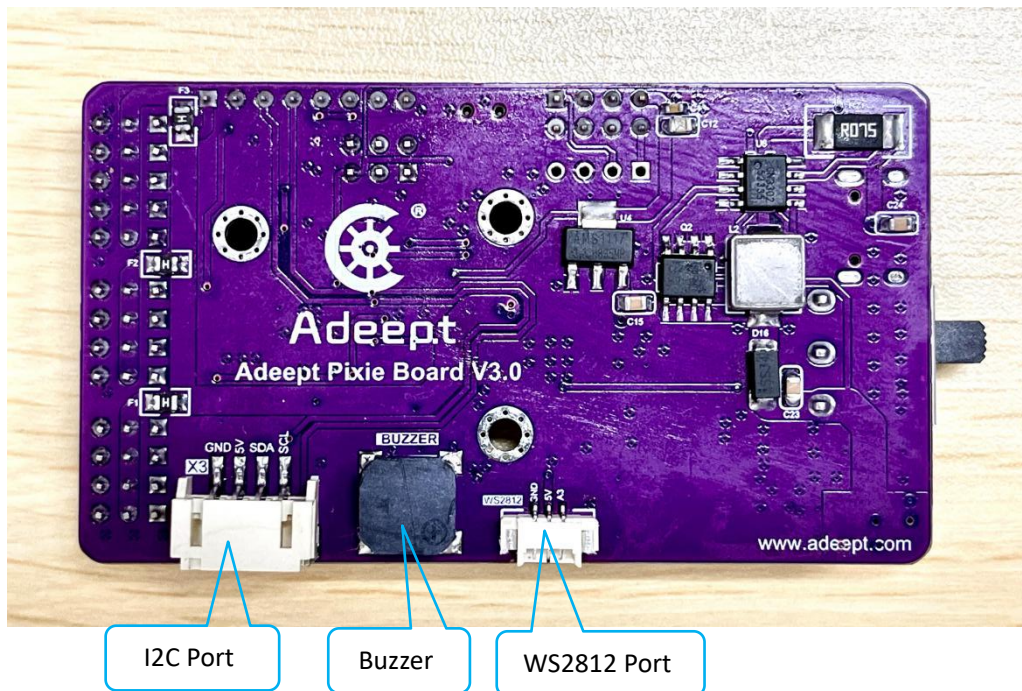


1 Introduction to the Adeept Pixie Board

1.1 Adeept Pixie Board

The Adeept Pixie 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 Pixie 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 Pixie Board development board in detail.





Name	Description
Type-C Port	Upload the program/charge the battery of the power interface
Power	Used to power the Adeept Pixie Board, while the power indicator turns on simultaneously
RESET	Restart the Arduino
Switch	Power ON/OFF
Servo	Servo interface controlled by Arduino pins
I2C Port	Used to connect I2C equipment, there are multiple I2C interfaces
WS2812 LED	2 WS2812 LED modules onboard
WS2812 Port	WS2812 extension port. Used to expand the number of WS2812 LEDs
Serial Port	The Arduino serial port is used for communication between Arduino and the chip, and the RX/TX indicators will also turn on

	simultaneously.
ESP8266	Used to connect ESP8266 module.
MPU6050	Used to connect MPU6050 module.
Upload Switch	Upload-0 RUN-1
IR Receiver	Receive infrared signals

1.2 Precautions for Using the Adeept Pixie Board

The front and back sides of the Adeept Pixie Board are equipped with many components. Please note to prevent short circuits when using it, and turn off the power before plugging in or unplugging cables to avoid damaging the control board.

The Adeept Pixie Board requires two standard 18650 lithium batteries for power supply, and each battery has a standard voltage of 3.7V.

Regarding the charging function: the **CR** red light turns on during charging, and the **OK** green light turns on when fully charged.

Regarding the **Upload Switch**, please note that:

1. If you install the ESP8266 module to the Adeept Pixie Board, you need to make sure that the paddle of the Upload switch is at **0** every time you upload the program.
2. Every time you use the ESP8266 module to communicate with the Adeept Pixie Board, you need to ensure that the paddle of the Upload switch is at **1**.

