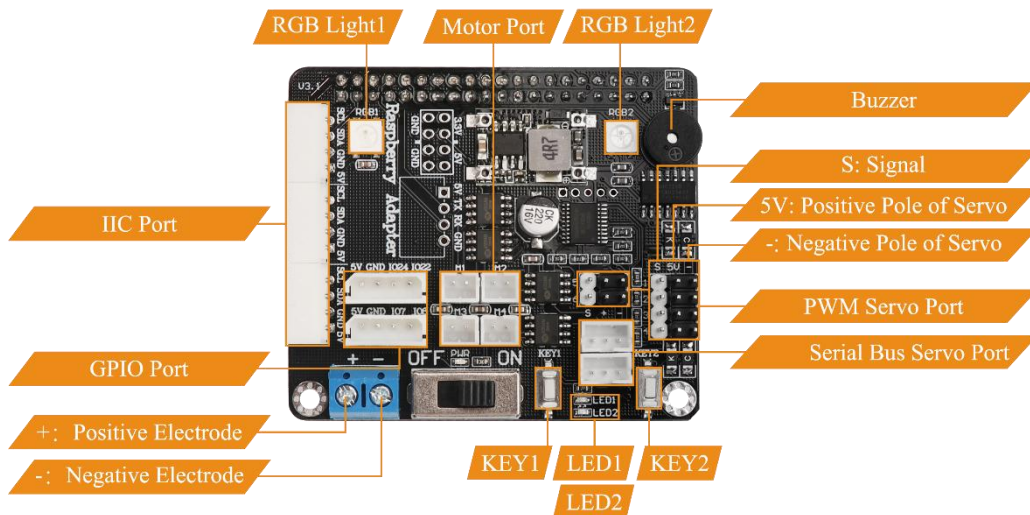# Lesson 1 Raspberry Pi Expansion Board Introduction

1. Function Distribution

For connecting with other sensors and executive elements, a multifunctional expansion board is developed by our company on the basis of actual requirement.

The port functions of Raspberry Pi expansion board are as follows:

2. Electronic Modules Instructions

Electronic Module	Instruction
RGB lights（RGB1、RGB2）	Set the status of RGB lights through programming (on or off, flashing, colors, etc)
Motor port	Connect and drive motor
Buzzer	Make buzzer sound through programming

PWM servo port	Connect and control PWM servo
Bus servo port	Connect and drive bus servo, and read servo status
Function key (KEY1)	Long press this key to switch connection mode from LAN mode to direct connection mode. (set LAN mode in app)
Function key (KEY2)	Long press this key to soft shutdown
Power indicator light (LED1)	Display the working status after turning on
Communication indicator (LED2)	Display Wi-Fi connection status AP direct connection mode: LED2 flashes every 2 seconds LAN mode: LED2 keeps on
Power port	Connect the paired wire of power supply to to supply Raspberry Pi power. Red to "+" and black to "-".
GPIO expansion port	For secondary development
IIC port	