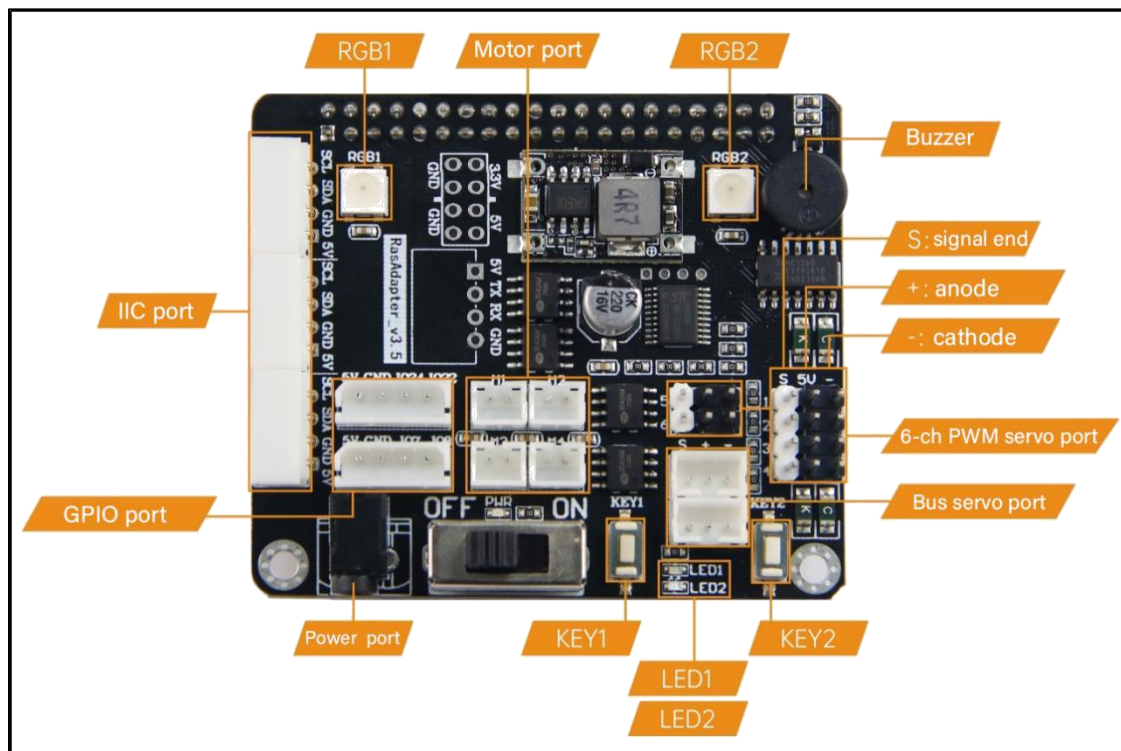


Lesson 1 Raspberry Pi Expansion Board Introduction

For connecting with other sensors and executive element, a multifunctional expansion board is developed by our company on the basis of actual requirement. The port function of Raspberry Pi is as follows:



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	Used to 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. (This function key can take effect only when you set LAN mode in app)
Function key (KEY2)	Long press this key to soft shutdown
Power indicator (LED1)	Display the working status after turning on
Communication indicator (LED2)	<p>Display Wi-Fi connection status</p> <p>AP direct connection mode: LED2 flashes every 2 seconds</p> <p>LAN mode: LED2 keeps on</p>
DC port	Connect the paired wire of battery box to this port to supply Raspberry Pi power
GPIO expansion port	For secondary development
IIC port	