Thank you for choosing keyestudio!

We will endeavour to provide you with better products and services!

About keyestudio

Keyestudio is the best-selling brand owned by KEYES Corporation. Our product contains Arduino development and expansion boards, sensors and modules, Raspberry Pi, micro:bit expansion boards as well as smart cars and learning kits, which can help customers at any level to learn about Arduino.

Notably, all of our products are in line with international quality standards and are greatly appreciated in a broad menu of different markets across the world.

Welcome to check out more contents from our official website: http://www.keyestudio.com

Obtain Information and After-sales Service

If something is found missing or broken, or you have some difficulty learning the kit, please feel free to contact us. Welcome to send email to us: service@keyestudio.com

We will endeavour to update projects and products continuously from your sincere advice! Thanks!

Warning

This product contains tiny pin headers, so please keep out of reach of children under 7 to prevent from lacerations.

This product also contains conductive parts(control board and electronic modules). Please operate according to the requirements of tutorials. Otherwise, improper operation may damage parts due to overheating. In this case, do not touch it and immediately disconnect the circuit power.

Copyright

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Keyestudio IOT Learning Kit for ESP32

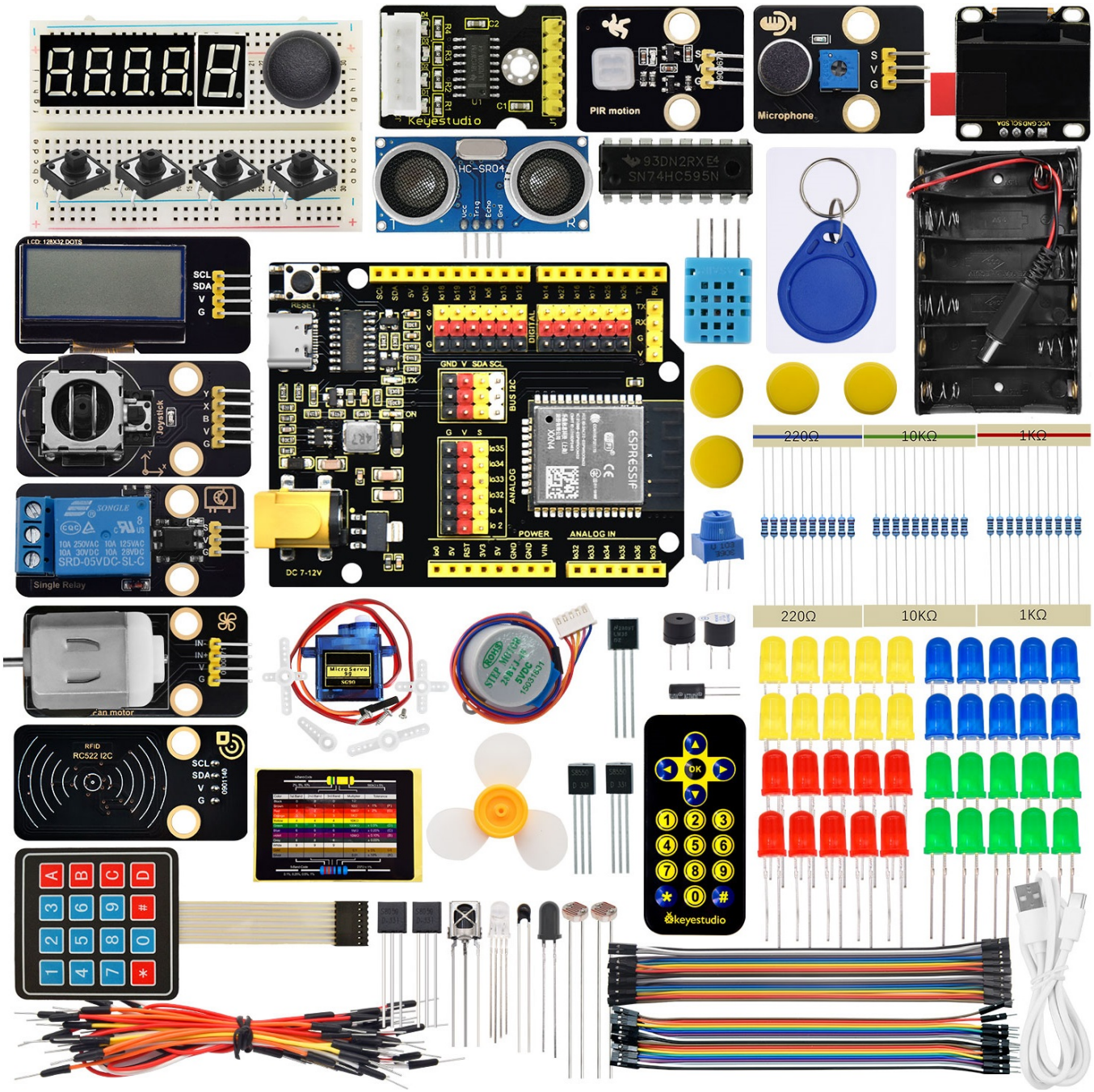
Introduction

Welcome to Keyestudio ESP-32 IOT Learning Kit! This kit is designed for beginners and developers with an insight into the versatile world of ESP-32 microcontrollers. With ESP-32 WROOM 32 at its core, it includes components such as leds, sensors, and motor. Thus, users can explore a wide variety of DIY and IoT projects.

Whether you're keen on basic electronics or IoT integration, this kit covers what you want. It not only provides IDE setup and basic syntax of MicroPython, but also covers those of Arduino with a dedicated section on fun DIY and projects.

In this kit, each project is carefully outlined to ensure you understand the objectives, circuit assembly, programming and code interpretation. Beyond that, actual application programs and troubleshooting FAQs are contained to provide a rich learning experience for all. Let's start the games and IoT projects with ESP-32!

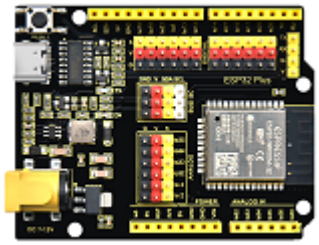
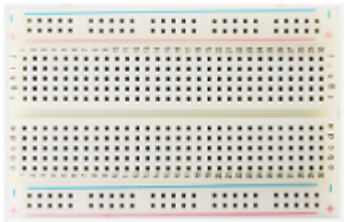
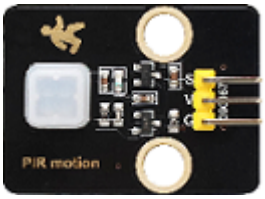
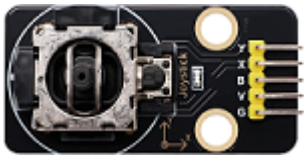
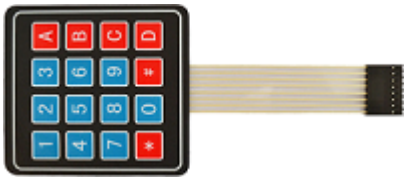
In addition, if you have any difficulties or questions about this tutorial and kit, please contact us at any time.

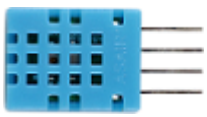


Kit List

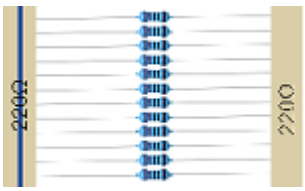
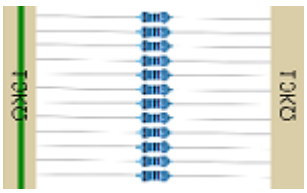
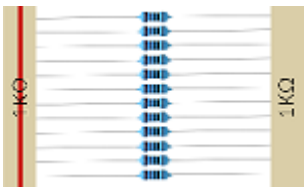
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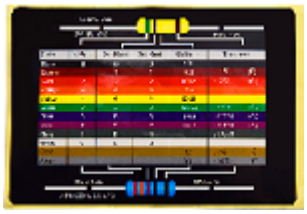
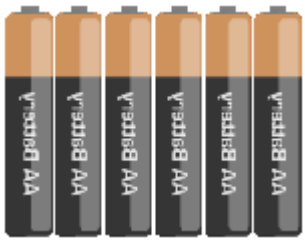
#	PIC	NAME	QTY

#	PIC	NAME	QTY
1		ESP32 PLUS main control board	1
2		breadboard	1
3		ultrasonic sensor	1
4		stepper motor drive board	1
5		PIR motion sensor	1
6		RFID module	1
7		joystick module	1
8		LCD_128X32_DOT module	1
9		thin film 4*4 key pad	1

#	PIC	NAME	QTY
10		servo	1
11		stepper motor	1
12		DC motor	1
13		1-bit digital tube	1
14		4-bit digital tube	1
15		relay module	1
16		DHT11 temperature and humidity sensor	1
17		LM35 temperature sensor	1
18		sound sensor	1
19		OLED module	1

#	PIC	NAME	QTY
20		button	4
21		passive buzzer	1
22		active buzzer	1
23		photoresistor	2
24		tilt switch	1
25		flame sensor	1
26		thermistor	1
27		IR receiver	1
28		74HC595 chip	1
29		potentiometer	1
30		NPN(S8050) transistor	2
31		PNP(S8550) transistor	2
32		RGB LED	1
33		red LED	10

#	PIC	NAME	QTY
34		yellow LED	10
35		green LED	10
36		blue LED	10
37		220Ω resistor	10
38		10KΩ resistor	10
39		1KΩ resistor	10
40		battery holder	1
41		IC card	1
42		ID card	1
43		joystick cap	1

#	PIC	NAME	QTY
44		fan	1
45		resistance card	1
46		remote control	1
47		yellow button cap	4
48		Micro USB cable	1
49		jumper wire	1
50		F-F DuPont wire	1
51		M-F DuPont wire	1
52		1.5V AA battery (**self-provided**)	6

Resource Download

Click to download to all resources such as project codes and libraries.

- Codes
- Library