

## About keystudio

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Keystudio is a best-selling brand owned by KEYES Corporation. Our product contains Arduino development boards, expansion boards, sensors and modules, Raspberry Pi, micro: bit expansion boards as well as smart cars, 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

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1. Download address: <https://fs.keyestudio.com/KS0085> 
2. 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](mailto:service@keyestudio.com)
3. We will endeavor to update projects and products continuously from your sincere advice! Thanks!

## Warning

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1. This product contains tiny parts(resistors, LED)so please keep out of reach of children under 7.
2. This product contains conductive parts (control board and electronic module). Please operate according to the requirements of tutorials. Improper operation may damage parts due to overheating. Do not touch and immediately disconnect the circuit power.

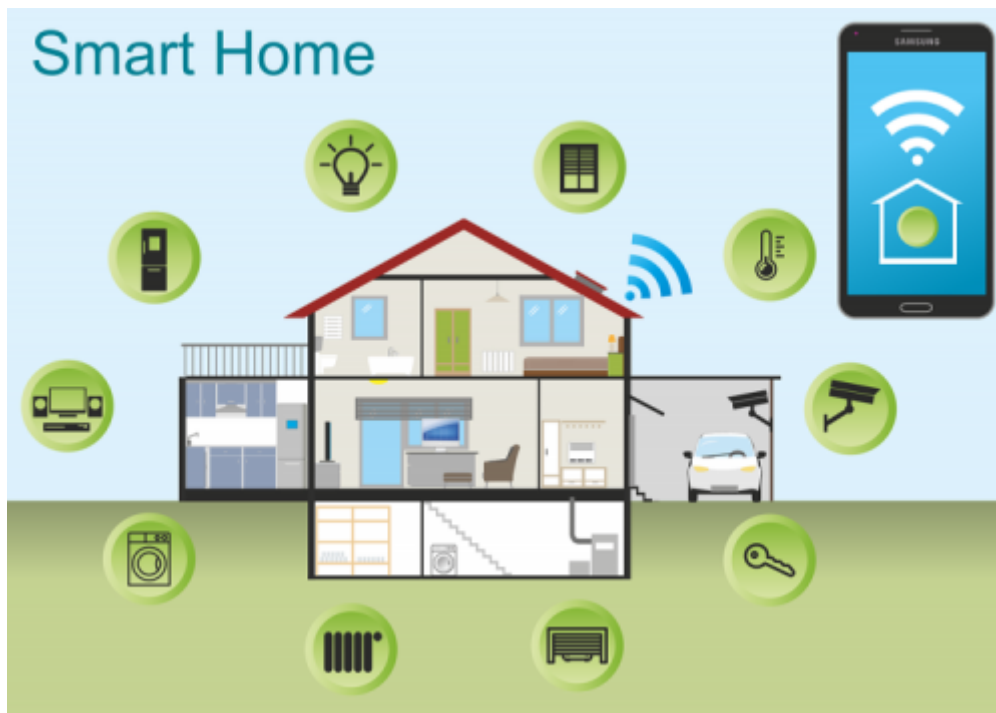
## Copyright

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## Keystudio Arduino Smart Home Kit

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## 1. Introduction

This Smart Home Learning Kit based on the Arduino platform is newly rolled out by Keyestudio DIY Robot Co. Ltd.

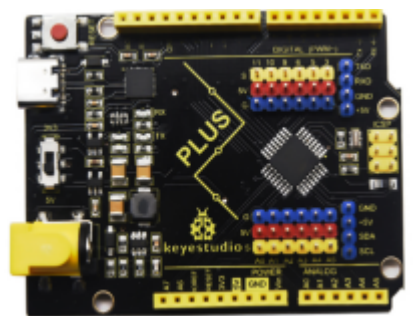
It simulates the real smart home and demonstrates the cozy and comfortable life for people.

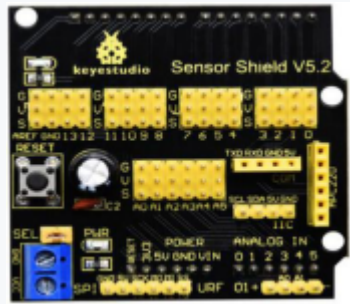

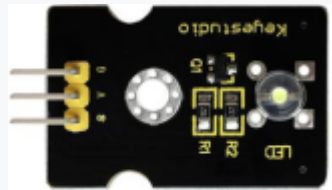
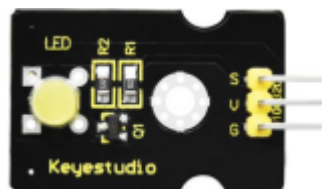


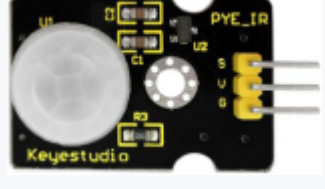

This system adopts PLUS main control board and multiple modules, including 1602 LCD, photocell sensor, analog gas(MQ-2) sensor, PIR motion sensor, yellow LED, servo, steam sensor and Bluetooth. In fact, Bluetooth controls everything in smart home: light intensity, humidity, flammable gas concentration, doors opening and closing. Everything is controlled via APPs on smart phones/IPad and will be displayed on 1602 LCD in real time.


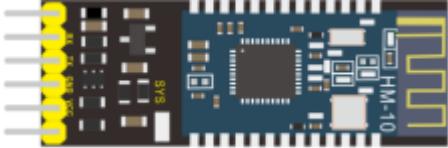

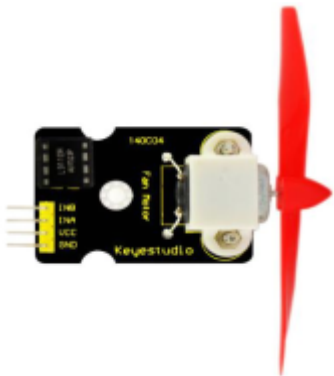
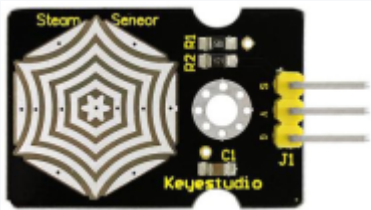


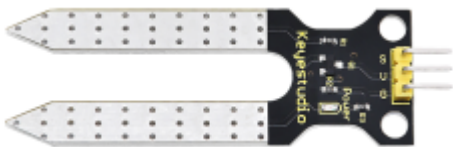
We totally provide 3 programming languages: C language, Mixly and Scratch.













In this tutorial, Scratch graphical programming will be introduced for you. Scratch hits the top list in programming, which is easy and convenient to use and understand.




## 2. Kit List

NO.	Specification	QNT	PIC
1	Keyestudio UNO PLUS Mainboard	1	

NO.	Specification	QNT	PIC
2	Keyestudio V5 Expansion Board	1	
3	basswood 10PCS T=3MM	1	
4	White LED	1	
5	YellowLED	1	
6	Button	2	
7	Photocell Sensor	1	
8	PIR Motion Sensor	1	
9	MQ-2 Gas Sensor	1	

NO.	Specification	QNT	PIC
10	Relay Module	1	
11	BT HM-10	1	
12	Passive Buzzer	1	
13	Fan	1	
14	Steam Sensor	1	
15	Servo	2	
16	LCD 1602	1	
17	Soil Humidity Sensor	1	

NO.	Specification	QNT	PIC
18	USB Cable	1	
19	F-F Dupont Wires	40	
20	M-F Dupont Wires	6	
21	M3 Nuts	25	
22	M2*12MM Round Head Screws	6	
23	M2 Nuts	6	
24	M3*10MM Dual-pass Copper Pillar	4	
25	M3*6MM Round Head Screws	8	
26	M3 304 Self-locking Nuts	4	
27	M3*10MM Round Head Screws	20	
28	M2.5*10MM Round Head Screws	6	
29	M2.5 Nuts	6	
30	M3*12MM Round Head Screws	6	
31	M3*10MM Flat Head Screws	2	
32	M1.2*5MM Round Head Self-tapping Screws	10	
33	6-Slot AA Battery Holder	1	

NO.	Specification	QNT	PIC
34	3*40MM Cross Screwdriver	1	
35	3P F-F Jumper Wire	13	
36	4P F-F Jumper Wire	2	

### 3.目录:

- Project 1 LED Blink
- Project 2 Breathing Light
- Project 3 Passive Buzzer
- Project 4 Button Controls LED
- Project 5 Relay
- Project 6 Optical Control Light
- Project 7 Servo
- Project 8 Fan
- Project 9 Steam Sensor
- Project 10 Human Sensing Intelligent Fan
- Project 11 Dangerous Gas Alarm
- Project 12 1602 LCD Display
- Project 13 Soil Moisture Detector
- Project 14 Bluetooth Test
- Project 15 Multi-functional Smart Home