FKS0001 Keyestudio ESP32 Inventor Starter Kit

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Description

This learning kit is a programmable tool specialized for kids above 6, which boasts 15 modules and sensors such as LEDs, buttons, a LCD, a photosensor, a sound sensor, an IR receiver, a temperature and humidity sensor as well as 30 interesting projects.

For your convenience, Arduino C language and graphical programming are provided, which empower to cultivate programming thinking.

Features

- 1. Easy wiring: The wiring of VCC and GND are removed.
- 2. Multiple functions:Nano or ESP32 development board are available as the control board and 15 sensors are integrated. When the external power supply is connected, the DIP switch can be used to control the VCC voltage to 3.3V or 5V.
- 3. Simple structure:Use 6mm dual-pass copper pillars to connect the acrylic board.
- 4. High expansibility: VCC and GNG pins are provided.
- 5. Programming learning: Arduino C language and graphical programming are available.

Parameters

Working voltage: 5V or 3.3V

DC power:7-12V

USB power:5V

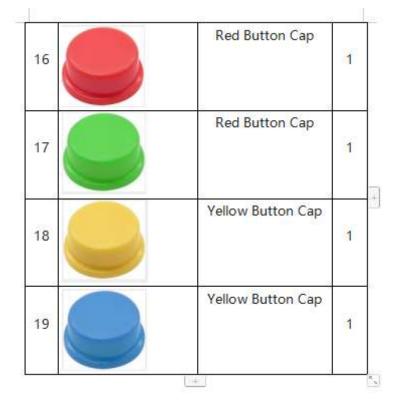
Working current:≥35mA

Working temperature: -10° C $\sim +65^{\circ}$ C

Kit

#	Picture	Components	QTY	,
1	0 0 €	Keyestudio Expansion Board	1	
2		Keyestudio ESP32 Development Board	1	86
3		Battery Holder	1	+
4		Servo	1	8
5		Slotted Screwdriver	1	3
6 1		Phillips Screwdriver	1	8
7	**************************************	IR Remote Control	1	

8		USB Cable	1
9		M2.5*6MM Round Head Screw	22
10	111111111111	M2.5*9MM Dual-pass Copper Pillar	10
11		20CM F-F DuPont Wires	20
12		10CM F-F DuPont Wires	20
13		Acrylic Board	1
14	9999	Rubber Pad	4
15		Potentiometer Cap	1



Projects

Project 01: LED Blinking Project 02: Breathing LED

Project 03: SOS Distress Device

Project 04: Traffic Light

Project 05: Rainbow Ambient Light

Project o6: Water Flow Light

Project 07: Active Buzzer

Project 08: Music Performer

Project 09: Digital Tube Display

Project 10: Dot Matrix Display

Project 11: LCD

Project 12: Servo

Project 13: Mini Lamp

Project 14: Counter

Project 15: Responder

Project 16: Timebomb

Project 17: Invasion Alarm

Project 18: Beating Heart Project 19: Dimming Lamp Project 20: Light Pillar Project 21: Sound Controlled LED

Project 22: Noise Meter Project 23: Smart Cup

Project 24: Weather Station

Project 25: Ultrasonic Rangefinder

Project 26: Human Body Piano Project 27: Intelligent Parking Project 28: Intelligent Gate

Project 29: IR Remote Control

Project 30: Smart Home

Resources

For more details, please refer to the following link:https://fs.keyestudio.com/FKS0001

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