

ATOM Lite ESP32 Development Kit



Description

Atom Lite, which has a size of only 24*24mm, is a very compact development board in the M5Stack development kit series. It provides more GPIOs for user customization which is very suitable for embedded smart home devices and in making smart toys. The main control adopts the ESP32-PICO chip which comes integrated with Wi-Fi and Bluetooth technologies and has a 4MB of integrated SPI flash memory. Atom Lite board provides an Infra-Red LED, a RGB LED, buttons, and a PH2.0 interface. In addition, it can connect to external sensors and actuators through 6 GPIOs. The on-board Type-C USB interface enables rapid program upload and execution.

- ESP32-based

- RGB LED
- Programmable button
- Built-in Infra-red
- Extendable Pins & Holes
- Program Platform: [Arduino](#), [UIFlow](#)

Include

1x ATOM Lite

Applications

- Internet of things terminal controller
- IoT node
- Wearable peripherals

Specification

Resources	Parameter
ESP32	240MHz dual core, 600 DMIPS, 520KB SRAM, Wi-Fi, dual mode Bluetooth
Flash	4MB
Power Input	5V @ 500mA
Port	TypeC x 1, GROVE(I2C+I/O+UART) x 1
PIN Port	G19, G21, G22, G23, G25, G33
RGB LED	WS2812B x 1
IR	Infrared transmission
Button	Custom button x 1
Antenna	2.4G 3D Antenna
Operating Temperature	32°F to 104°F (0°C to 40°C)
Size	24 x 24 x 10 mm
Weight	12g
Case Material	Plastic (PC)

