

M5Stack ATOM Lite ES32 Development Board



Overview:

ATOM Lite is a very compact development board in the M5Stack development kit series. Its size is only 24 * 24mm. It provides more GPIO for user customization, and it is very suitable for integrated smart home and toy development. The main control adopts the solution, integrates Wi-Fi and Bluetooth modules, has 4MB SPI flash memory, provides infrared, Neo led, buttons, IMU sensor and ph2.0 interface. In addition, it can be connected externally via 6 GPIOs devices. The built-in type-c interface makes it possible to quickly download and upload the program.

Product Features:

- USB type-c
- ESP32-based
- Housing material: PC + ABS
- 4MB flash
- 1 * reset button
- 1 * Neo led
- 1 * Programmable button
- 1 * infrared
- 2.4G antenna: Proant 440
- 6 * GPIO (Dupont pins)
- 4P PH2.0 interface
- Program platform: MicroPython, Arduino, UIFLOW

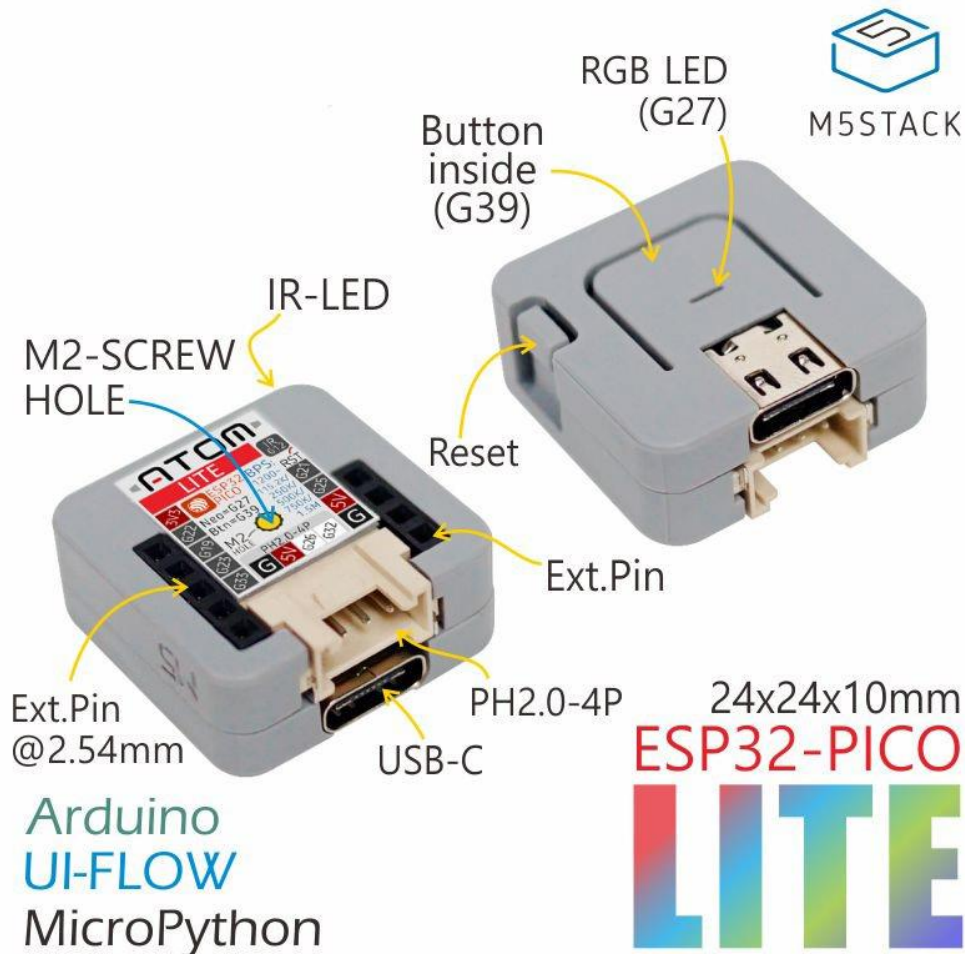
ESP32 Features:

- Tensilica LX6 240 MHz dual-core microcontroller with 600 DMIPS
- Integrated 520 kB SRAM
- Integrated HT40 Wi-Fi transceiver, baseband, battery and LWIP
- Integrated dual mode Bluetooth (classic and BLE)
- Hall sensor
- 10x capacitive touch interface
- 32kHz crystal oscillator
- PWM input / output / timer available on each GPIO pin
- SDIO master / 50MHz burst
- SD card interface support

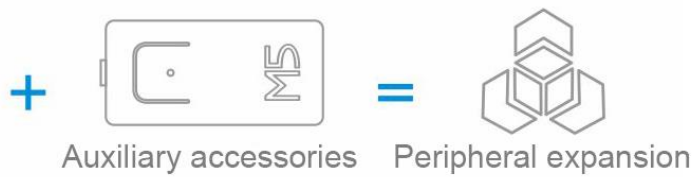
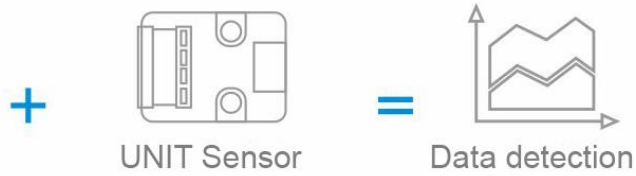
Specifications:

Master Control Resources	Parameter
ESP32	240MHz dual core, 600 DMIPS, 520KB SRAM, Wi-Fi, dual mode Bluetooth
Flash	4MB
Input voltage	5V @ 500mA
Host interface	TypeC x 1, GROVE(I2C+I/O+UART) x 1
PIN interface	G19, G21, G22, G23, G25, G33
RGB LED	SK6812 3535 x 1
IR	Infrared transmission
Button	Custom button x 1
Antenna	2.4G 3D antenna
Operating temperature	0°C to 60°C
net weight	3g
Host size	24*24*10mm
Shell material	Plastic (PC)

More Product Details:



Rich and Scalable System



Application Scenarios



PS4 Controller



Robot Control



BLE Vibration reminder device



Light Control