ATOM Lite

SKU:C008

Description

Atom Lite is a very compact development board in the M5Stack development kit series with a size of only 24 * 24mm. It provides more GPIO 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.

Product Features

- ESP32-based
- RGB LED
- Programmable button
- Built-in Infra-red
- Extendable Pins & Holes
- Program Platform: Arduino、UIFlow

Include

- 1x ATOM Lite

Applications

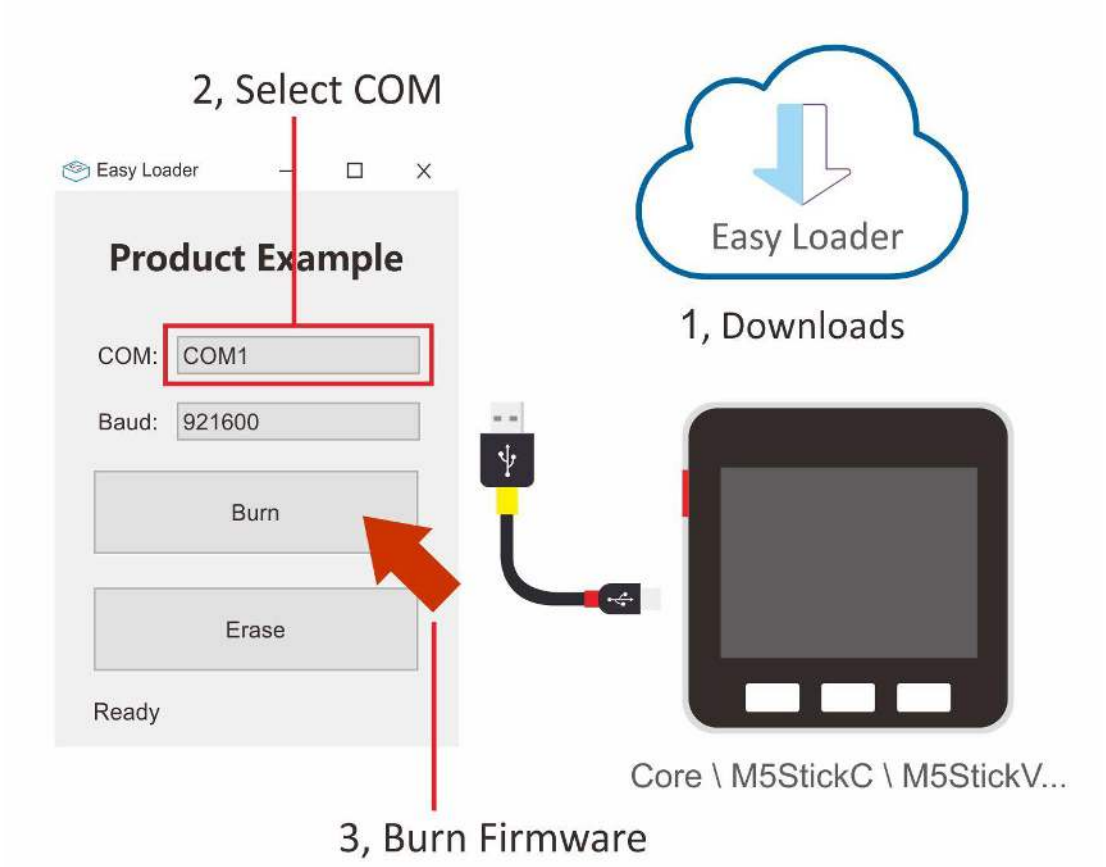
- Internet of things terminal controller
- IoT node
- Wearable peripherals

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/0+UART) x 1
PIN Port	G19, G21， G22， G23， G25, G33
RGB LED	WS2812B x 1
IR	Infrared transmission
Button	Custom button x 1
2.4G Antenna	Proant 440
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)

EasyLoader

EasyLoader is a concise and fast program writer, which has a built-in case program related to the product. It can be burned to the main control by simple steps to perform a series of function verification. Please install the corresponding driver according to the device type. M5Core host Please click here to view the CP210X driver installation tutorial, M5StickC/V/T/ATOM series can be used without driver)



Windows

Description:
Through the color-changing breathing light program, test whether the RGB LED and buttons are working properly.

Peripherals Pin Map

RGB Led	G27
Btn	G39
IR	G12

Links

- **Datasheet**
  - ESP32-PICO
  - WS2812B-2020

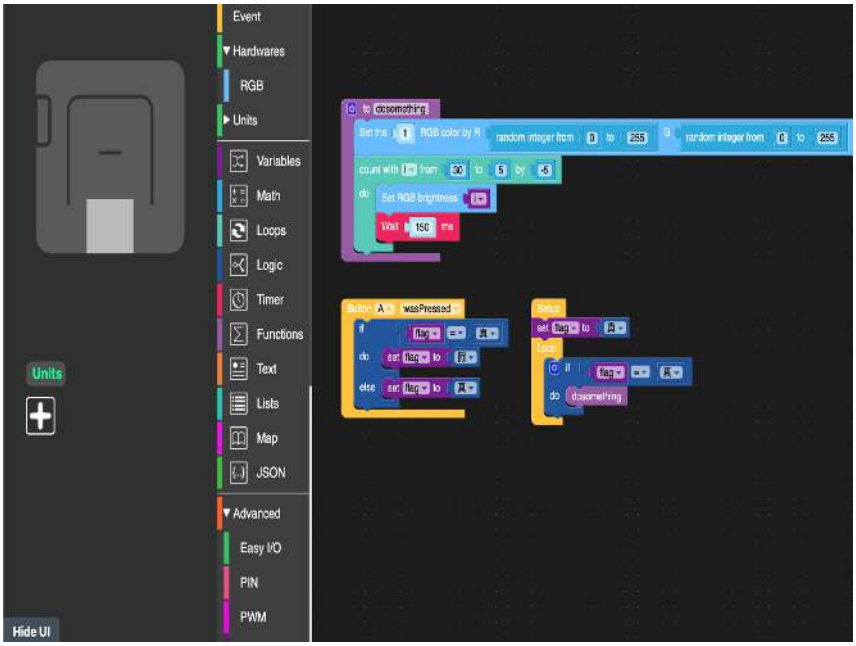
Example

1. Arduino IDE

- To get the code, please click here

2. UIFlow

- Click here to view UIFlow example



https://docs.m5stack.com/#/en/core/atom_lite/4-3-20