

#### SKU:C123







# Description

AtomS3 is a highly integrated programmable controller based on ESP32–S3 main control, which integrates ESP32-S3 main control, integrated WiFi function, and 8M on-chip FLASH; 0.85 inch IPS screen ; Programmable button function at the bottom of the screen; Built-in 5V to 3.3V circuit, 6-axis gyro sensor MPU6886 , on-board Type-C interface, power supply and firmware download, one HY2.0-4P expansion port, 6 GPIOs and power pins reserved at the bottom to facilitate expansion applications. The product size is only 24\*24mm , which is suitable for various embedded smart device applications .

• Reminder: If you need to burn the firmware, please press and hold the reset button (about 2 seconds) until the internal green LED lights up, then you can

release it, at this time the device has entered download mode and waited for burning.

## Features

- Developed based on ESP32-S3FN8
- Comes with USB download function
- Built-in 3-axis gyroscope and 3-axis accelerometer (MPU6886)
- Programmable keys
- 0.85 inch LCD screen
- Infrared emission function
- Expandable pins and interfaces
- Development platform: Arduino, UIFlow

#### Includes

• 1x AtomS3

# Applications

• IoT node

• Microcontroller

• Wearables

# Specification

Resources	Parameters
MCU	ESP32-S3FN8
DCDC	SY8089
IMU	MPU6886
LCD	N085-1212TBWIG06-C08
Operating temperature	0°C ~ 40°C
Resolution	128(H)RGB x 128(V)
support voltage	5V
Power supply mode	TYPE C
output voltage	3.3V
IO interface × 6	G5/G6/G7/G8/G38G39
Screen communication protocol	SPI
Product Size	24mm × 24mm × 13mm
Package Size	65mm × 44.5mm × 14mm
Product Weight	6.8g
Package Weight	10.9g





**PROGRAMMABLE INT CONTROLLER** 





# Related Link

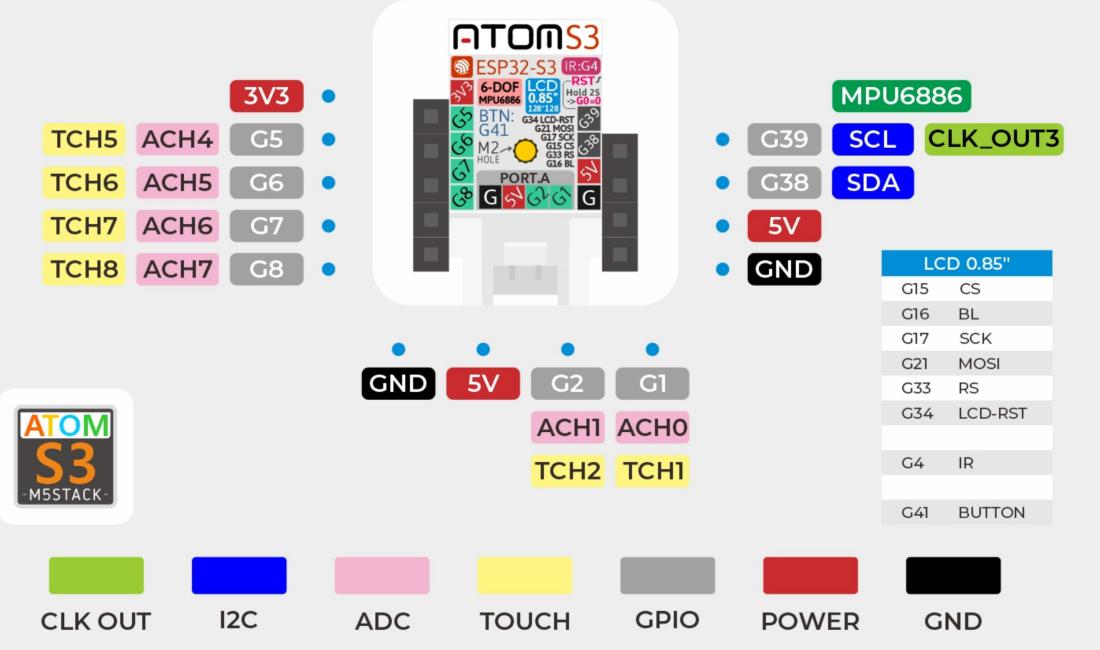
• ESP32-S3

• **SY8089** 

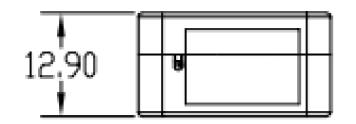
AtomS3 Demo Easyloader Download

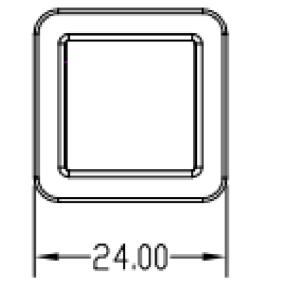
## Schematic

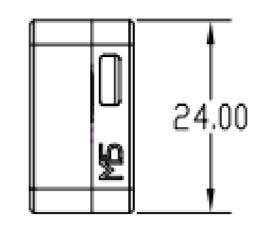




#### Module Size







UNIT:mm





#### Arduino

• AtomS3 Arduino Library

