



Contents [[hide](#)]

- [1 Description](#)
- [2 Specifications](#)
- [3 Quick Start](#)
- [4 FCC Warning](#)
- [5 Documents / Resources](#)
 - [5.1 References](#)

Description

StickS3 is a compact and high-performance programmable controller specifically designed for remote control and IoT applications. At its core, it features the ESP32-S3-PICO-1-N8R8 main control chip, supports 2.4 GHz Wi-Fi wireless communication, and comes with 8MB Flash and 8MB PSRAM, meeting the needs of diverse application development while delivering outstanding performance and expandability. For human-machine interaction, it is equipped with a 1.14" LCD display, a 6-axis IMU sensor, and programmable buttons. The audio system employs the ES8311 mono codec, combined with a high-sensitivity MEMS microphone and an AW8737 power amplifier, enabling clear sound pickup and high-fidelity audio output for voice recognition and interactive experiences. Additionally, it integrates IR transmitter and receiver tubes, along with a

250mAh lithium battery, making it suitable for applications such as smart home control, AI voice assistants, and IoT project development.



Specifications

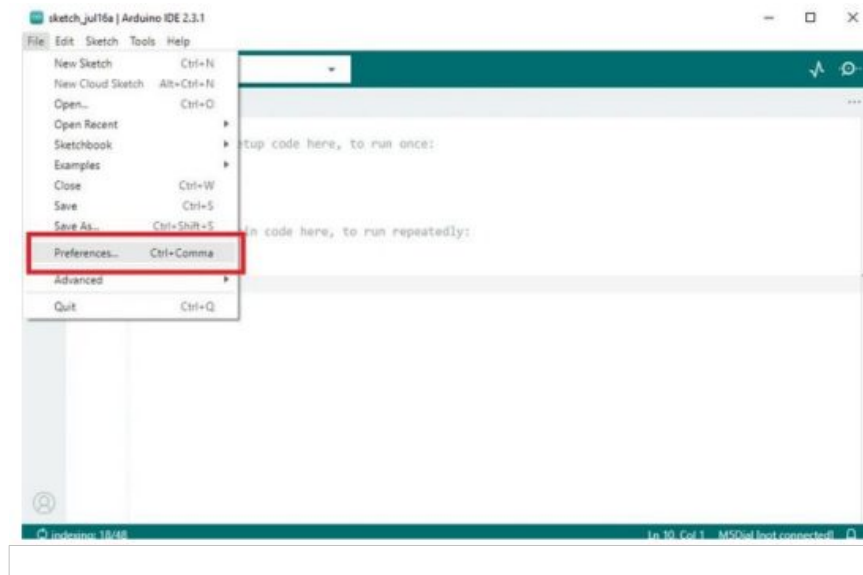
Specification	Parameters
SoC	ESP32-S3-PICO-1-N8R8 @ Dual-core Xtensa LX7 processor, up to 240MHz main frequency
PSRAM	8MB
Flash	8MB
Input Power	USB: DC 5V
Audio CodeC	ES8311: 24-bit resolution, using I2S protocol
MEMS Microphone	MSM381A3729H9BPC, Signal-to-Noise Ratio (SNR): ≥ 65 dB
Speaker	AW8737 power amplifier, 2011 cavity speaker: 1W @8 Ω
Operating Temperature	0 ~ 40°C

Quick Start

3.1 Preparation

1. Visit the official Arduino website and install the Arduino IDE
<https://www.arduino.cc/en/Main/Software>
2. Add the following Board Manager URL to File → Preferences → Additional Boards Manager URLs: https://espressif.github.io/arduino-esp32/package_esp32_dev_index.json

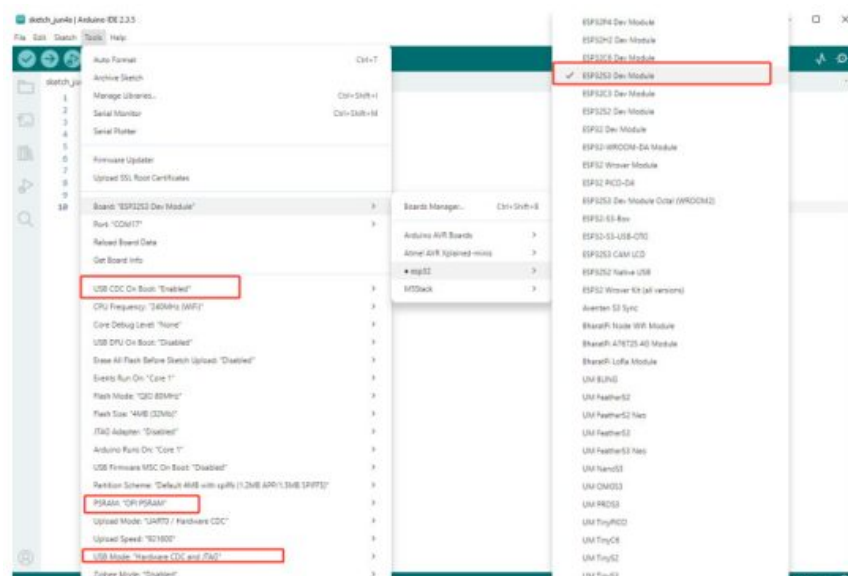
3.



Open the Boards Manager, search for “ESP32”, and click install.

4. After installation, select the board “ESP32S3 Dev Module”

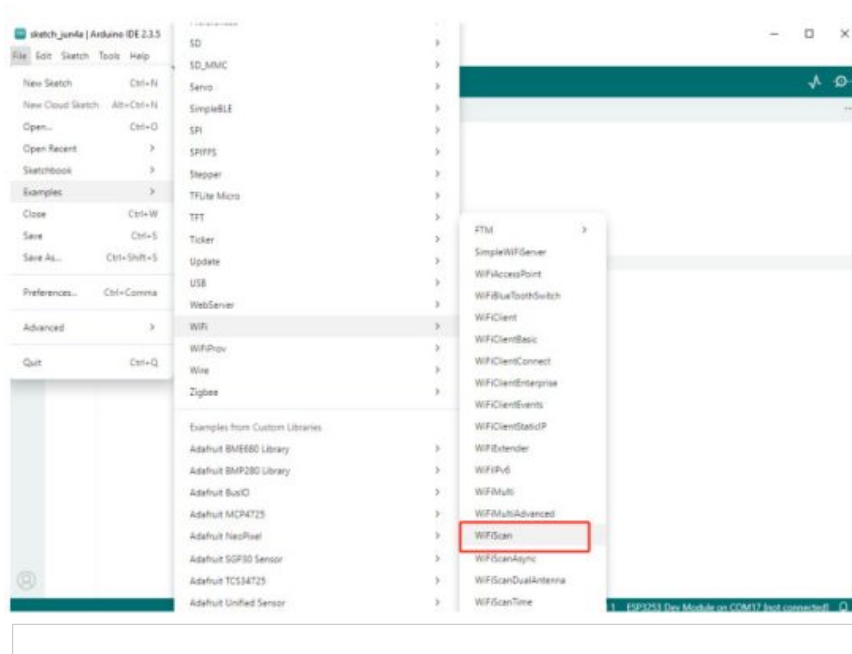
5. Configure the following options. USB CDC On Boot: “Enabled”, PSRAM ”OP
PSRAM”, USB Mode: “Hardware CDC and JTAG”



3.2 Wi-Fi Scan

Select the example program “Examples” → “WiFi” → “WiFiScan”, choose the port corresponding to your device, and click the compile and upload button in the top-left corner.

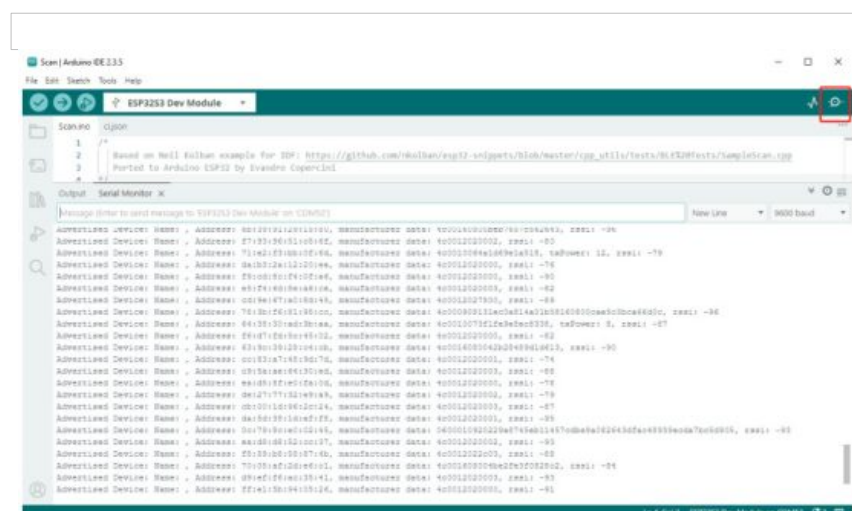
After uploading is complete, open the Serial Monitor to view Wi-Fi scan information.



3.3 BLE Scan

Select the example program “Examples” → “BLE” → ”Scan”, choose the port corresponding to your device, and click the compile and upload button in the top-left corner.

After uploading is complete, open the Serial Monitor to view BLE scan information.



FCC Warning

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:


- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



Documents / Resources

	<p>M5STACK StickS3 Compact and High Performance Programmable Controller [pdf] User Manual</p> <p>2AN3WM5STICKS3, 2AN3WM5STICKS3, M5STICKS3, StickS3 Compact and High Performance Programmable Controller, StickS3, Compact and High Performance Programmable Controller, High Performance Programmable Controller, Programmable Controller</p>
---	--

References

- [User Manual](#)

■ M5STACK

🔗 2AN3WM5STICKS3, Compact and High Performance Programmable Controller, High Performance Programmable Controller, M5STACK, M5STICKS3, Programmable Controller, StickS3, StickS3 Compact and High Performance Programmable Controller

Leave a comment

Your email address will not be published. Required fields are marked *

Comment *

Name

Email

Website

☐ Save my name, email, and website in this browser for the next time I comment.

Post Comment

Search:

Search

[Manuals+](#) | [Upload](#) | [Deep Search](#) | [About Us](#) | [Privacy Policy](#) | [@manuals.plus](#) | [YouTube](#) | [LinkedIn](#) | [FaceBook](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of

these marks on this website does not imply any affiliation with or endorsement.