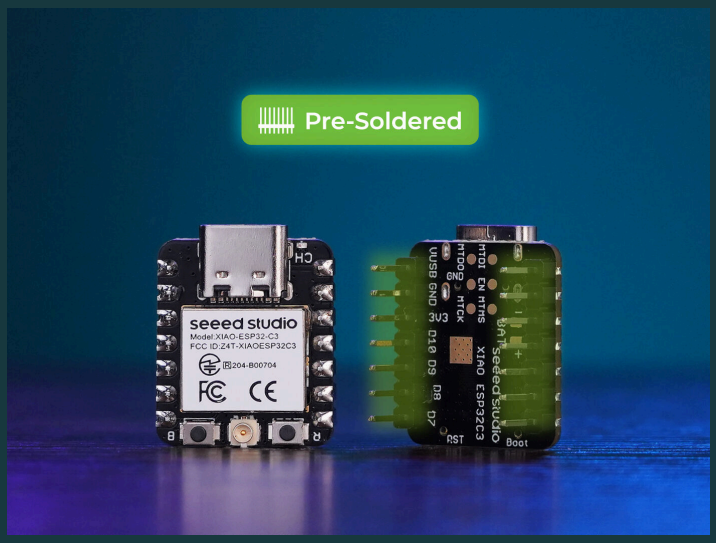
seeed studio

INDUSTRIAL PRODUCT DATASHEET

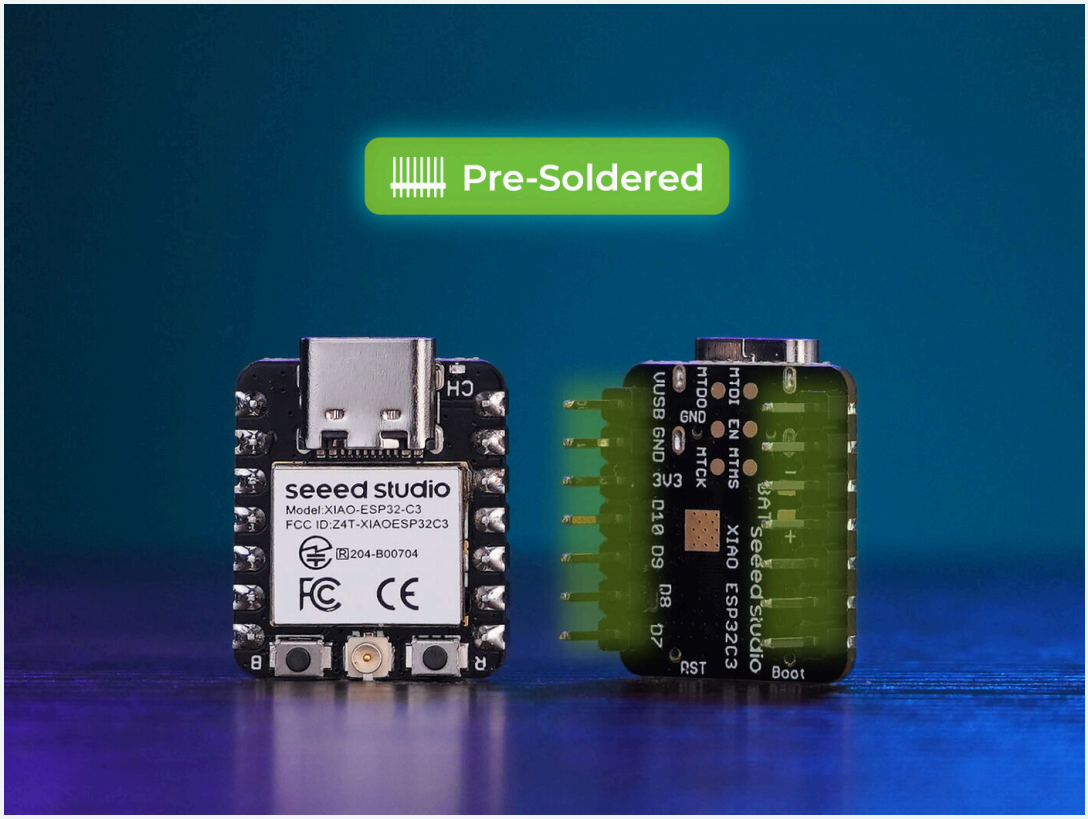
# Seeed Studio XIAO ESP32-C3 (Pre-Soldered)

This is the pre-soldered version of Seeed Studio XIAO ESP32C3, which adopts new RISC-V architecture, supporting both Wi-Fi and BLE wireless connectivities.

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 102010633 | 2026-11-11 09:06:52 | $5.90(Excl. VAT) |



# Overview




This is the pre-soldered version of Seeed Studio XIAO ESP32C3, which adopts new RISC-V architecture, supporting both Wi-Fi and BLE wireless connectivities. For Internet of Things applications, you will find it is flexible and suitable for all kinds of IoT scenarios.

# Key Features

01 **Flexible MCU Board**

Incorporate the ESP32-C3 32-bit RISC-V chip, operating up to 160 MHz, mounted multiple development ports, supported by Arduino / CircuitPython

02 **Outstanding RF performance**

Implement complete Wi-Fi functions and Bluetooth Low Energy, while supporting communication over 100m with a U.FL antenna

03 **Elaborate Power Design**

Provide 4 working modes as low as 44 μA in deep sleep mode, while supporting lithium battery charge management

04 **Thumb-sized Design**

21 x 17.8mm, Seeed Studio XIAO series classic form factor and elegant productization of single-sided components mounting,suitable for wearable devices

05 **Perfect for Production**

Breadboard-friendly & SMD design, no components on the back

06 **Starter Kit with free Course for all Electronics Neophytes and Enthusiasts**

07 **We already have 10 XIAO products based on different solutions in the XIAO family, to help you better understand the differences and choose the most suitable part for your projects, please refer to the Seeed Studio XIAO Series Page.**

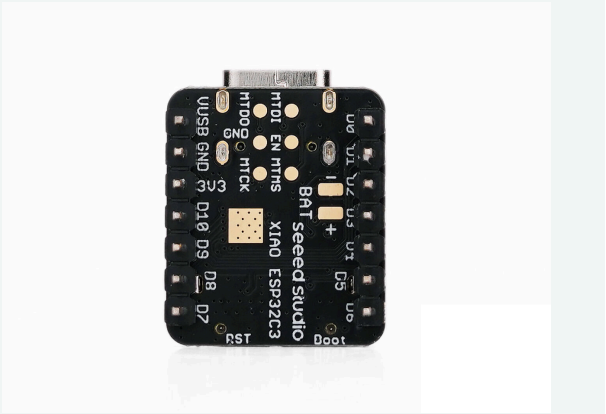
# Product Gallery

















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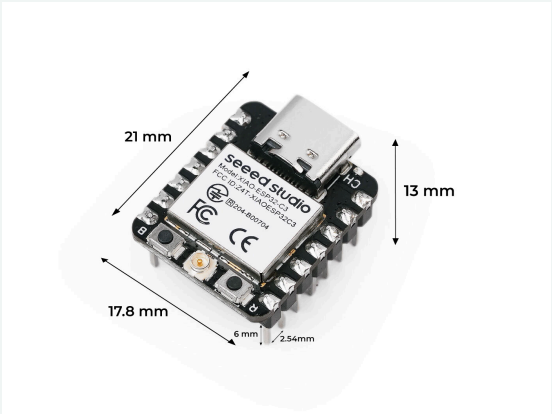
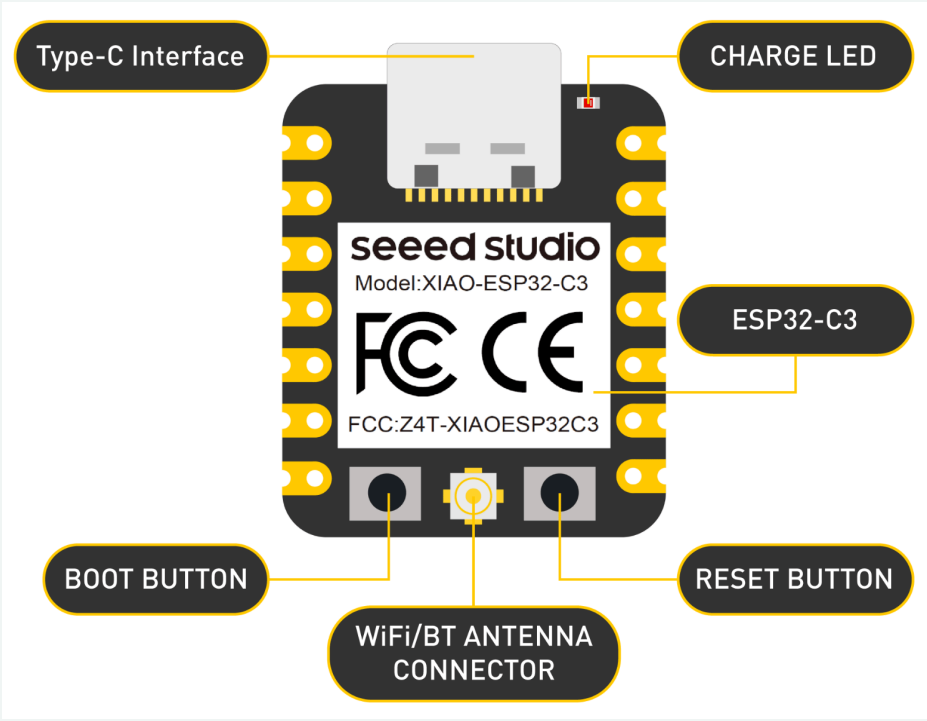
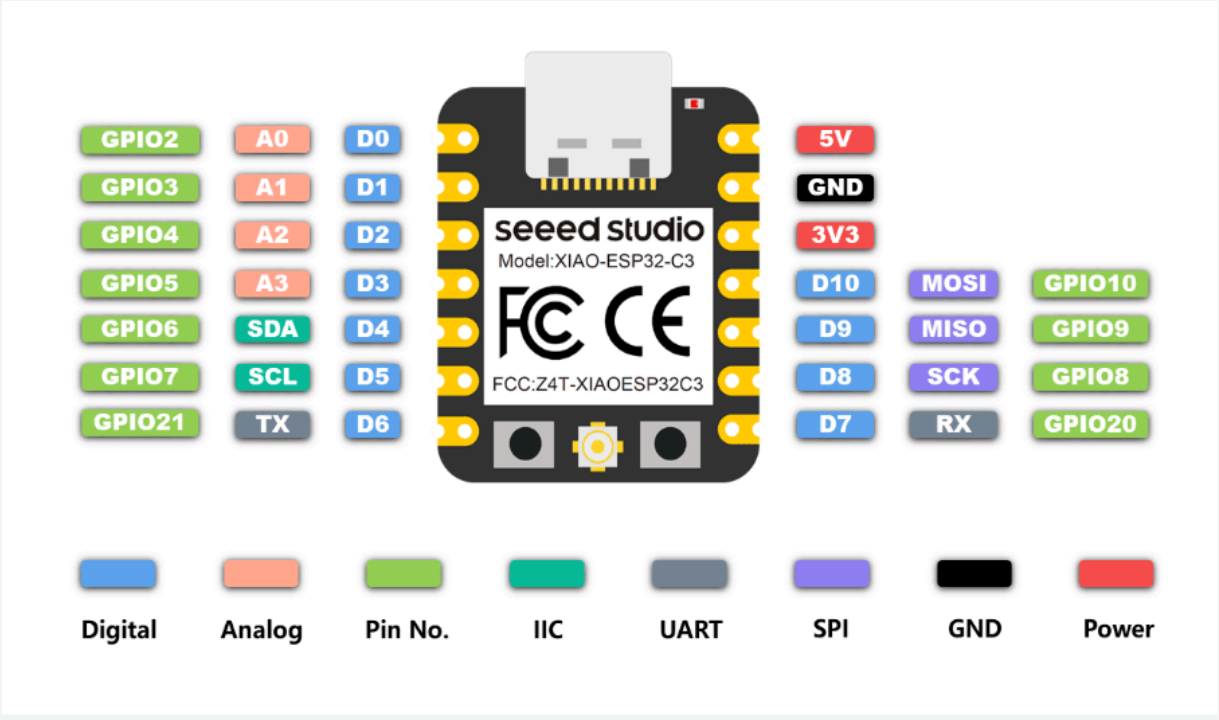
Model:XIAO-ESP32-C3
FCC ID:Z4T-XIAOESP32C3
204-B00704


21 mm
13 mm
17.8 mm
6 mm
2.54mm

# Hardware Overview



# Applications

- **Internet of Things**
- **Wearable devices**
- **Health monitoring**
- **Education**
- **Low-Power(LP) networking**
- **Rapid prototyping**
- **Application 1: Smart Private Garage**
- **Materials: XIAO ESP32C3 *2, Grove - Button *1, Grove - Relay*1**
- **Description::** This is a peer-to-peer WiFi communication application, since two XIAOs detect each other via Wifi, the garage door will open or keep opening, and vice versa.
- **Improvement::** It is nice to add an ultrasonic distance sensor to measure the car-to-door distance and an OLED screen to check the status of the garage. If you want an onboard voice sensor to command the door to open with vocal instruction, try our XIAO BLE Sense.
- **Application 2: Remote Forest Tracker**
- **Materials: XIAO ESP32C3 *1, Grove - Wio - E5 *1, Grove - GPS *1**

# Resource Links

- https://www.seeedstudio.com/Seeed-Studio-XIAO-ESP32C3-Pre-Soldered-p-6331.html
- 3D Printing "Case" Studies
- PCN-XIAO Series Packaging Upgrade.pdf
- Wiki-XIAO ESP32-C3 Resources
- Report of XIAO ESP32-C3 Low Power Consumption
- Seeed Studio XIAO Use Case

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