

INDUSTRIAL PRODUCT DATASHEET

Seeed Studio XIAO ESP32-C3 (Tape & Reel)

Seeed Studio XIAO ESP32-C3 (Tape & Reel) is a breadboard-friendly SMD ESP32-C3 RISC-V module with Wi-Fi, BLE 5.0, U.FL antenna, deep sleep at 44 μ A, and lithium battery charge management for IoT, wearables, and rapid prototyping.

SKU

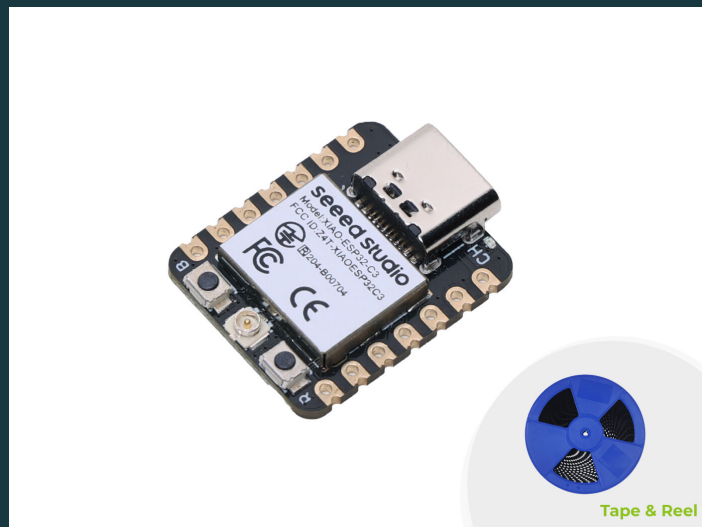
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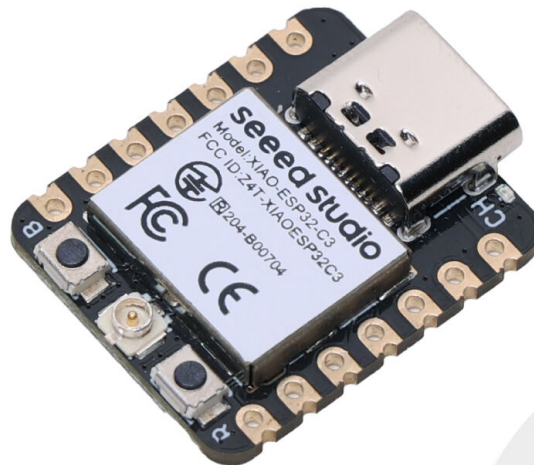
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PRICE

\$4.49(Excl. VAT)



Overview



Tape & Reel

The Seeed Studio XIAO ESP32-C3 (Tape & Reel) is a flexible MCU module featuring the ESP32-C3 32-bit RISC-V chip operating up to 160 MHz, mounted as a single-sided SMD module without through-hole headers, and supported by Arduino/CircuitPython. It delivers complete Wi-Fi and Bluetooth Low Energy 5.0 with U.FL antenna communication over 100m, four working modes as low as 44 μ A in deep sleep, lithium battery charge management, and is suited for IoT, wearables, health monitoring, education, low-power networking, rapid prototyping, smart private garage, and remote forest tracker applications.

Key Features

01

Flexible MCU Module

Incorporates the ESP32-C3 32-bit RISC-V chip operating up to 160 MHz, mounted as a single-sided SMD module without through-hole headers, supported by Arduino/CircuitPython

02

Outstanding RF performance

Implement complete Wi-Fi functions and Bluetooth Low Energy 5.0, while supporting communication over 100m with a U.FL antenna

03

Elaborate Power Design

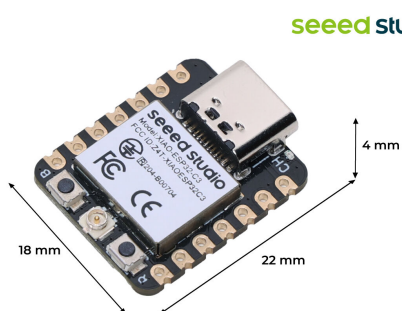
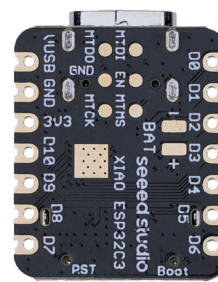
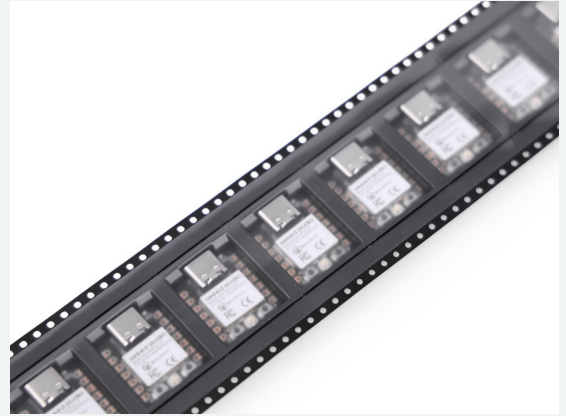
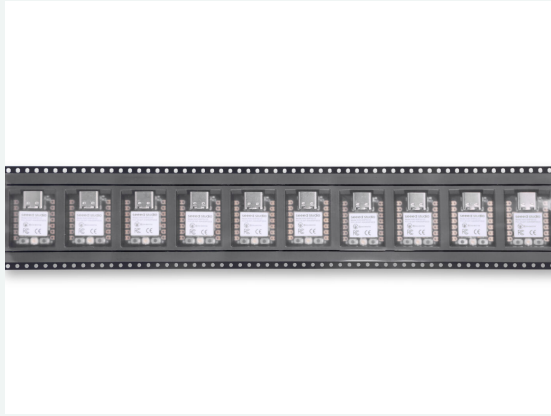
Provide 4 working modes as low as 44 μ A in deep sleep mode, while supporting lithium battery charge management

04

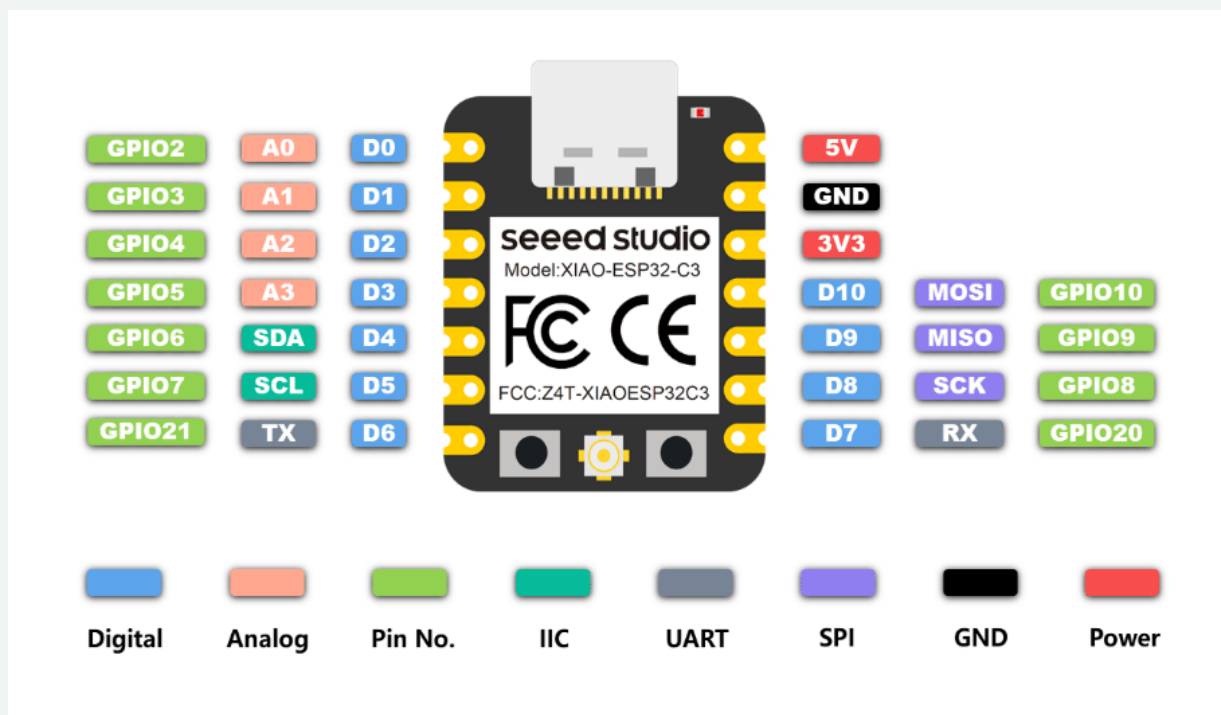
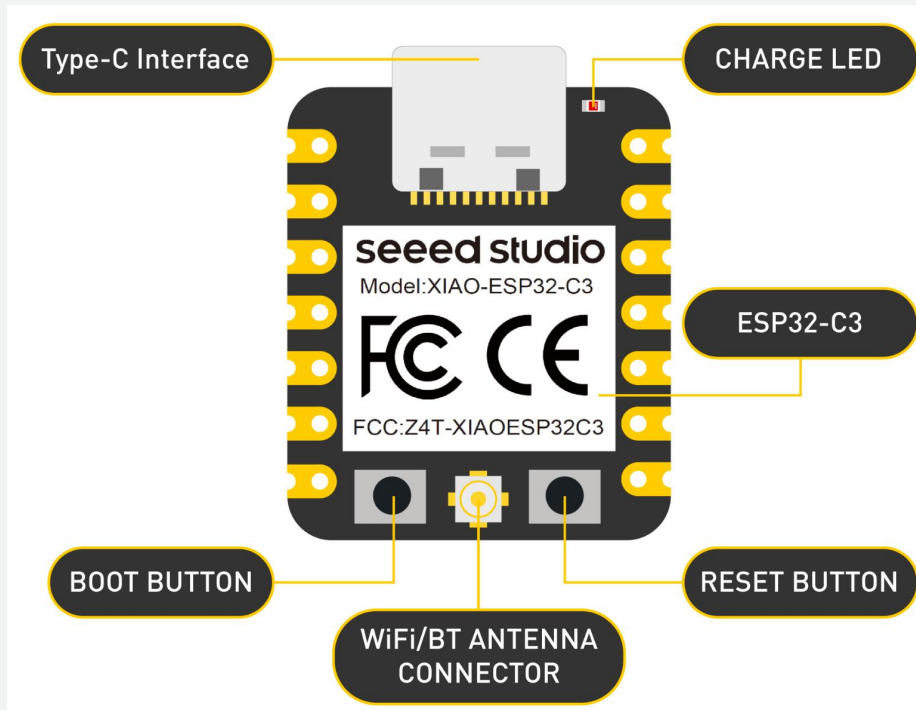
Perfect for Production

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

Product Gallery



Hardware Overview



Applications

- **Internet of Things**
- **Wearable devices**
- **Health monitoring**
- **Education**
- **Low-Power(LP) networking**
- **Rapid prototyping**
- **Smart Private Garage:** 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.
- **Remote Forest Tracker:** Thanks to the tiny size of the XIAO series, it is suitable to make the wearable devices, such as a small pet trackers. This wearable device can be used as a simple GPS-Tracker which will lock its current location and publish other data via LoRa.

Resource Links

- <https://www.seeedstudio.com/Seeed-Studio-XIAO-ESP32C3-Tape-Reel-p-6471.html>
- [3D Printing "Case" Studies](#)
- [Wiki-XIAO ESP32-C3 Resources](#)
- [Report of XIAO ESP32-C3 Low Power Consumption](#)
- [Seeed Studio XIAO Use Case](#)

Seeed Technology Co.,Ltd.

9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676

Web: www.seeed.cc

Shop: www.seeedstudio.com