

INDUSTRIAL PRODUCT DATASHEET

Seeed Studio XIAO ESP32-S3 Plus(Tape & Reel)

Seeed Studio XIAO ESP32-S3 Plus(Tape & Reel) delivers dual-core ESP32-S3 performance, WiFi + BLE 5.0, efficient low-power operation, and XIAO ecosystem compatibility for IoT, wearables, smart homes, robotics, health monitoring,...

SKU

101991469

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PRICE

\$7.50(Excl. VAT)



Overview



Seeed Studio XIAO ESP32-S3 Plus(Tape & Reel) combines a dual-core ESP32-S3 MCU at 240MHz, 2.4GHz WiFi + BLE 5.0 with U.FL antenna support, power modes down to 14 μ A deep sleep, integrated Li-ion charging, and 20 GPIOs in a 21 x 17.8mm classic XIAO form factor. It supports Arduino, MicroPython, ESP-IDF, and XIAO accessory add-ons, targeting Internet of Things, wearables, smart homes, robotics, health monitoring, education, ESP-Now communication, and low-power networking.

Key Features

01 High-Performance MCU

Dual-core ESP32-S3 at 240MHz, Arduino / MicroPython / ESP-IDF compatible

02 Advanced Wireless

2.4GHz WiFi + BLE 5.0, 100m+ range with U.FL antenna support

03 Efficient Power Management

Four power modes with 14µA deep sleep, integrated Li-ion charging

04 Expanded 20 GPIOs

9 extra 1.27mm pitch SMD castellation pins beyond standard XIAO nRF52840

05 Universal Compatibility

Standard backside layout (with aligned battery pads, and debugger pads) for more to-be-released XIAO expansion boards

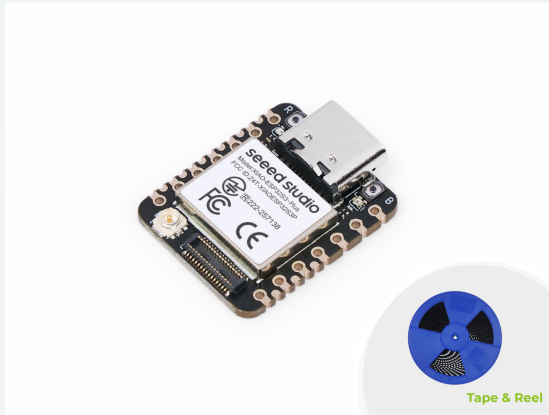
06 Classic XIAO Form Factor

21 x 17.8mm design with 2.54mm pin headers, single-sided mounting for wearables and space-constrained projects

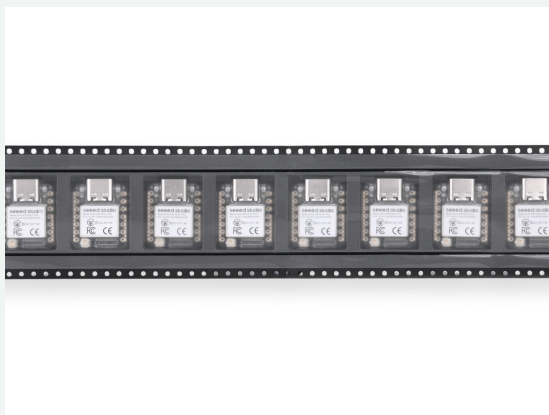
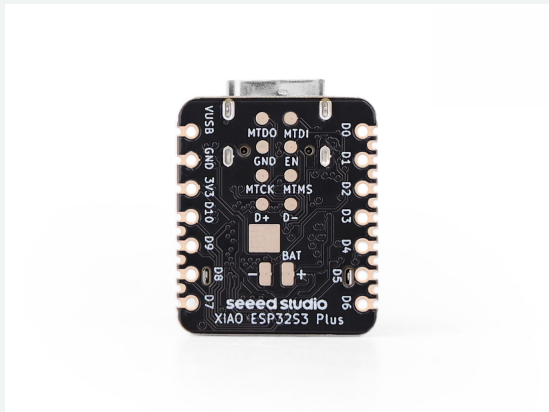
07 XIAO Accessory Add-ons Compatibility

Natively compatible with all the XIAO accessory add-ons of expansion, connectivity modules (LoRa, CAN_Bus, RS-485), sensors (2-Mic Array, Vision AI, mmWave Motion, Environmental sensing), and actuators (ePaper display, LED Matrix, relay and more).

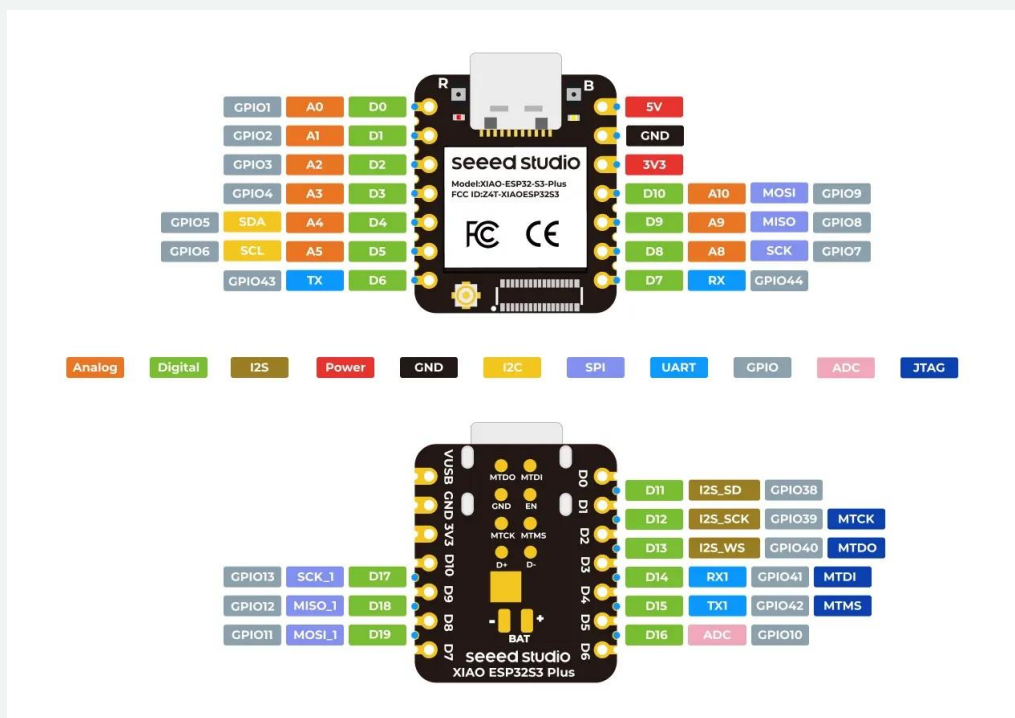
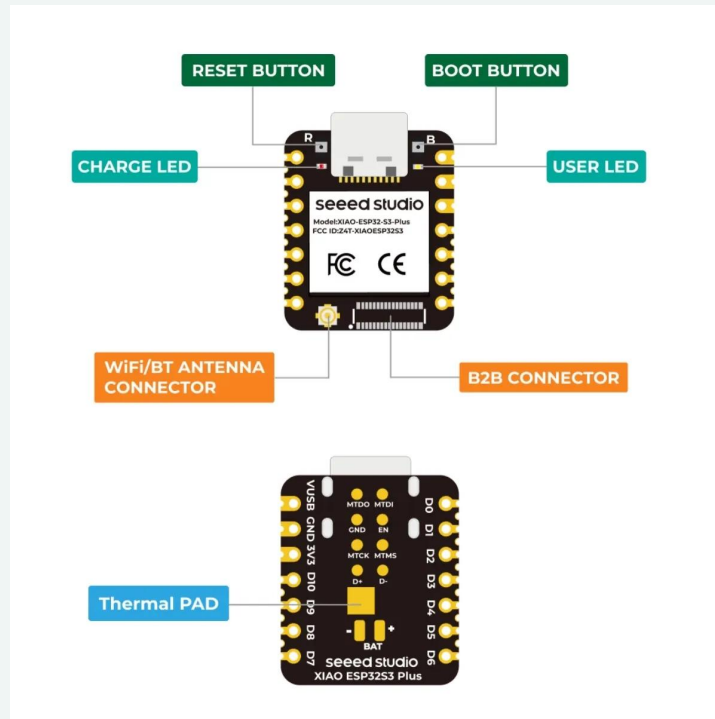
Product Gallery



Tape & Reel



Hardware Overview



Applications

- Internet of Things
- Wearable devices
- Smart Homes
- Robotics
- Health monitoring
- Education
- ESP-Now Communication
- Low-Power(LP) networkin

Resource Links

- <https://www.seeedstudio.com/Seeed-Studio-XIAO-ESP32S3-Plus-Tape-Reel-p-6677.html>
- [Wiki-XIAO ESP32-S3 Series Resources](#)
- [Seeed Studio XIAO Use Case](#)
- [TinyML Case Studies](#)
- [3D Printing "Case" Studies](#)

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