

113991054 | Seeed Studio XIAO ESP32-C3

SKU: 113991054

Product Overview

The Seeed Studio XIAO ESP32-C3 uses a new RISC-V architecture and supports both Wi-Fi and Bluetooth Low Energy (BLE) connectivity. It is suitable for various Internet of Things (IoT) applications.

Features

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

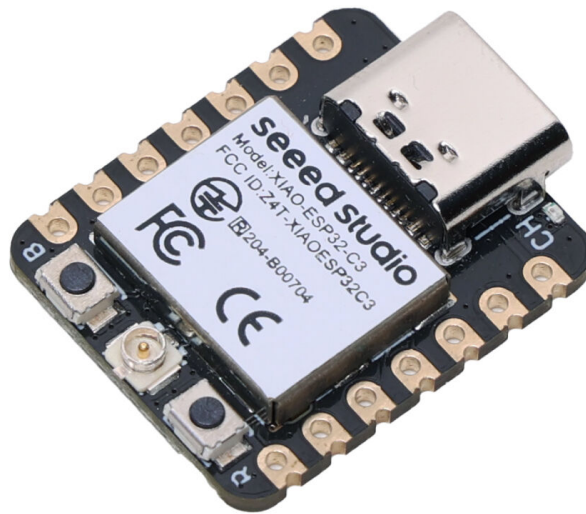
Outstanding RF performance: Implement complete Wi-Fi functions and Bluetooth Low Energy, while supporting communication over 100m with a U.FL antenna

Elaborate Power Design: Provide 4 working modes as low as 44 uA in deep sleep mode, while supporting lithium battery charge management

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

Perfect for Production: Breadboard-friendly & SMD design, no components on the back Production-Ready Design with Fusion PCBA Support All Seeed Studio XIAO dev boards feature a production-optimized SMD (Surface Mount Device) design with standardized stamp holes, making it perfect for commercial PCBA (Printed Circuit Board Assembly) integration. Through our Fusion PCBA Sponsorship program, you can not only enjoy the lowest unit prices for all XIAO modules from our Fusion Open Parts Library, but also fabricate and scale your XIAO-based PCBA designs at low cost (30% off) with FREE Design for Manufacturing consulting services, streamlining your journey from prototype to production.

Product Image



Product image

Specifications

Parameter: Description

Processor: ESP32-C3 SoC

RISC-V single-core 32-bit chip processor with a four-stage pipeline that operates at up to 160 MHz:

Wireless: Complete 2.4GHz Wi-Fi subsystem

Bluetooth Low Energy 5.0/ Bluetooth Mesh:

On-chip Memory: 400KB SRAM & 4MB Flash

Interface: 1x UART1x IIC1x SPI11x GPIO(PWM)4x ADC

1x Reset button1x Boot button:

Dimensions: 21 x 17.8mm

Power(Typ.): Max 3.3V Output Current: 500mA Test Condition: BAT Pin Input @ 3.8V Source Capability: 3A

Charging current: 380mA(Fast) / 40mA(Trickle):

Input voltage (VIN): 5V **input voltage (BAT):** 3.7V:

Deep Sleep Power Consumption: Deep Sleep Mode: 44 uA

Wi-Fi Enabled Power Consumption: Active Mode: 75 mA

Modem-sleep Mode: 25 mA:

Light-sleep Mode: 4 mA:

BLE Enabled Power Consumption: Modem-sleep Mode: 27 mA

Light-sleep Mode: 10 mA:

Working Temperature: -40degC ~ 85degC

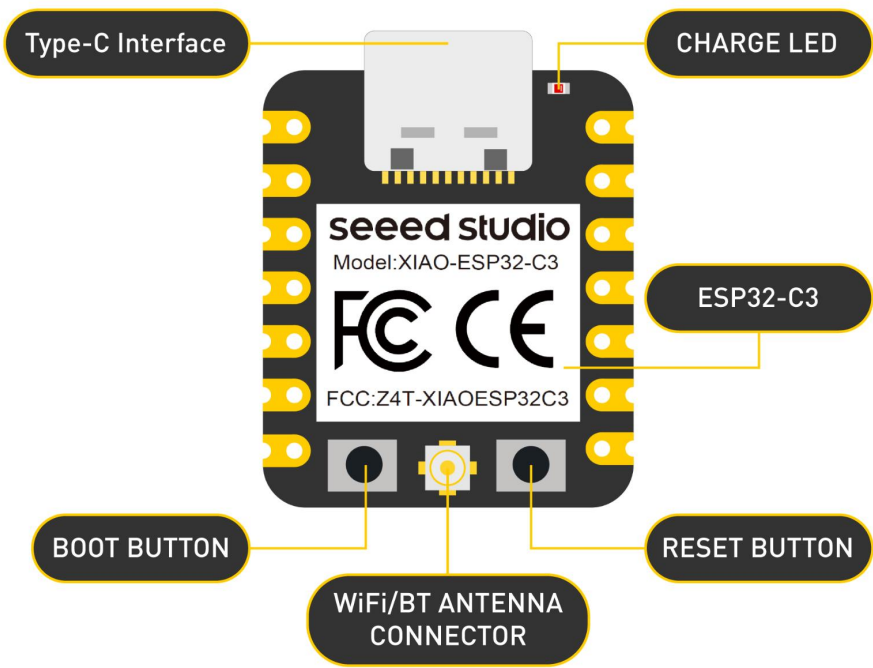
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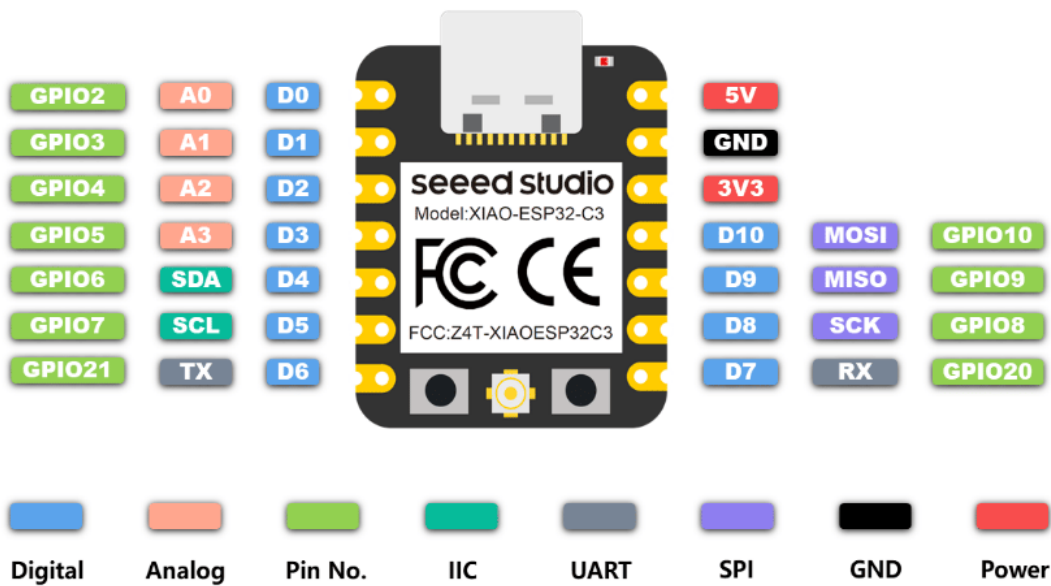
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Hardware Overview



Hardware overview image



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