seeed studio

INDUSTRIAL PRODUCT DATASHEET

Seeed Studio XIAO ESP32-C6 (3PCS)

This is a 3PCs pack of XIAO ESP32-C6, which is a cost-effective MCU based on Espressif's ESP32-C6.

SKU	UPDATED	PRICE
102010574	2026-11-11 09:03:39	$14.49(Excl. VAT)



Overview



This is a 3PCs pack of XIAO ESP32-C6, which is a cost-effective MCU based on Espressif's ESP32-C6. This compact MCU excels in Matter-compliant smart home applications with its support for various wireless connectivity (2.4GHz Wi-Fi 6, BLE 5.0, Zigbee, and Thread). Designed with the thumb-size footprint and a single-sided mount of the XIAO Series, it's perfect for space-limited projects. Encrypted on the chip, the XIAO ESP32-C6 ensures a desired level of security streamlined development experience, and swift market entry by integrating easily with major IoT Cloud platforms.

Key Features

01 **Enhanced Connectivity**

Combines 2.4GHz Wi-Fi 6 (802.11ax), Bluetooth 5(LE), and IEEE 802.15.4 radio connectivity, allowing you to apply the Thread and Zigbee protocols.

02 **Matter Native**

Supports building Matter-compliant smart home projects thanks to its enhanced connectivity, achieving interoperability

03 **Security Encrypted on Chip**

Powered by ESP32-C6, it brings enhanced encrypted-on-chip security to your smart home projects via secure boot, encryption, and Trusted Execution Environment (TEE)

04 **Outstanding RF performance**

Has an on-board antenna with up to 80m BLE/Wi-Fi range, while reserving an interface for external UFL antenna

05 **Leveraging Power Consumption**

Comes with four working modes, with the lowest being 15 μA in deep sleep mode, while also supporting lithium battery charge management.

06 **Dual RISC-V Processors**

Incorporates two 32-bit RISC-V processors, with the high-performance processor running up to 160 MHz, and the low-power processor clocking up to 20 MHz

07 **Classic XIAODesigns**

Remains the classic XIAO designs of the thumb-size form factor of 21 x 17.8mm, and single-sided mount, making it perfect for space-limited projects such as wearables

08 **Compatability with Mainstream Platforms**

ESP Rain Maker, AWS IoT, Microsoft Azure, Google Cloud, ESPNow, Arduino, CircuitPython, ESP IDF, Apache Kafka, Meshtastic, ESPHome, Home Assistant

09 **Production-Ready Design with Fusion PCBA Support**

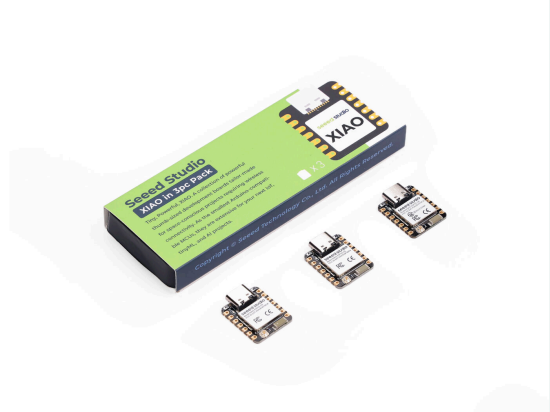
10 **XIAO Premium 3pcs Pack with Pin-Headers——Free shipping**

11 **Warehouse**

12 **Shipping Policy**

< 2kg

Product Gallery





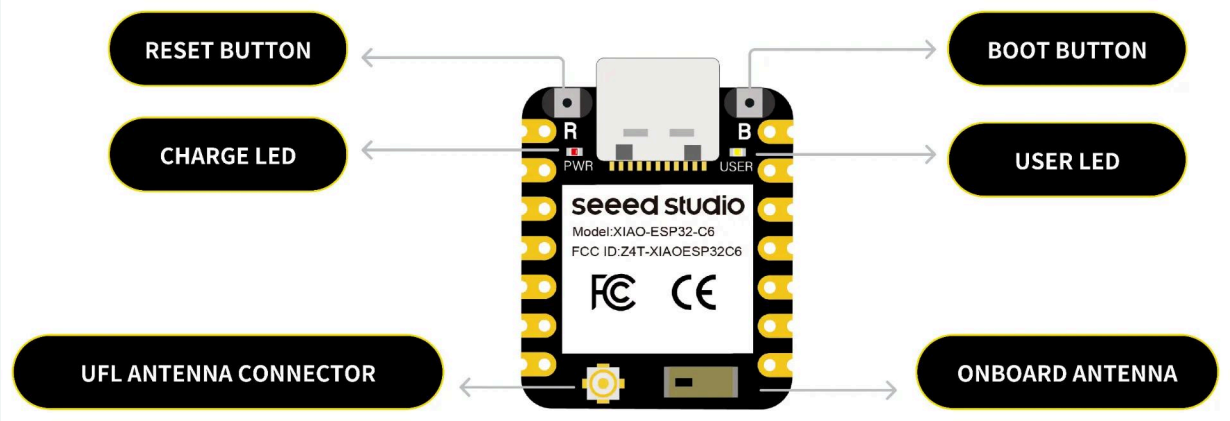


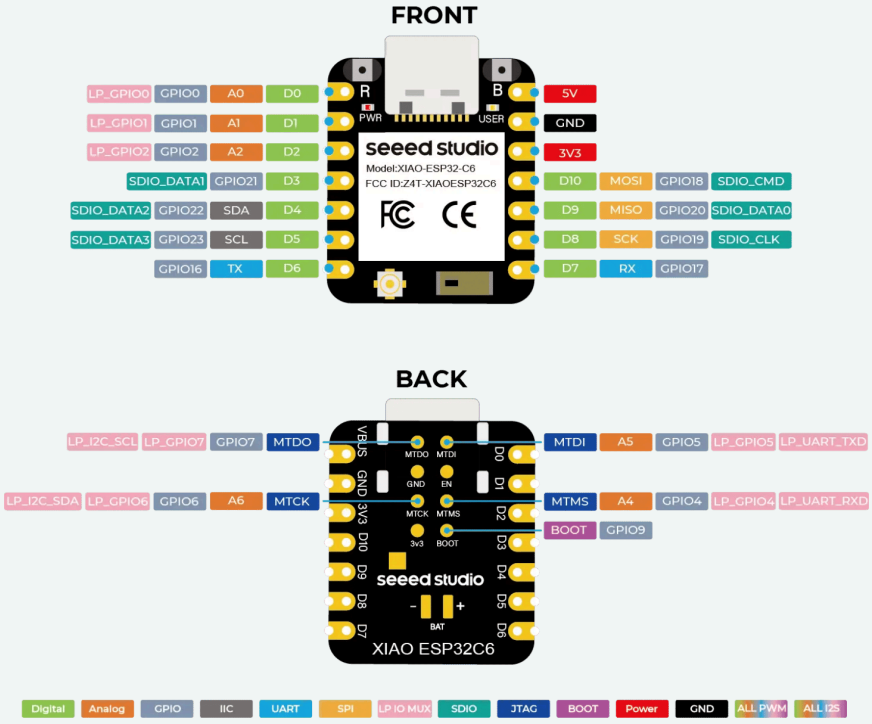






Hardware Overview





Applications

- **Secure and Connected Smart Home, enhancing everyday life through automation, remote control, and more**
- **Space-limited and Battery-Powered Wearables, thanks to their thumb-size and low-power consumption**
- **Wireless IoT Scenarios, enabling rapid, reliable data transmission**

Resource Links

- https://www.seeedstudio.com/Seeed-StudioXIAO-ESP32C6-3PCS-p-5918.html
- Wiki-XIAO ESP32-C6 Resources
- Seeed Studio XIAO Use Case

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