

INDUSTRIAL PRODUCT DATASHEET

Seeed Studio XIAO ESP32-C5

Seeed Studio XIAO ESP 32-C 5 — the first XIAO module with 5 GHz Wi-Fi support, marking a new milestone in the XIAO family. Built on the RISC-V architecture, it brings together 2.4 GHz and 5 GHz dual-band Wi-Fi 6, Bluetooth 5 (LE), and IEEE 802.15.4 (Zigbee, Thread) connectivity, while offering full support for IoT application protocols including Matter, Home Kit, and MQTT. With this versatile

SKU

100010048

UPDATED

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PRICE

\$6.90(Excl. VAT)



Overview



Figure 1. 100010048 Seed Studio Xiao Esp32C5

Seed Studio XIAO ESP 32-C 5 — the first XIAO module with 5 GHz Wi-Fi support, marking a new milestone in the XIAO family. Built on the RISC-V architecture, it brings together 2.4 GHz and 5 GHz dual-band Wi-Fi 6, Bluetooth 5 (LE), and IEEE 802.15.4 (Zigbee, Thread) connectivity, while offering full support for IoT application protocols including Matter, Home Kit, and MQTT. With this versatile combination, your projects gain smoother, faster, and more reliable wireless performance.

Key Features

01

First Seed Studio XIAO with 5 GHz Wi-Fi

02

Comprehensive connectivity

03

High-performance core

04

Enhanced security

05

**Built-in Battery Interface for
Low-Power Designs**

06

We already have over 15 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 Seed Studio XIAO Series Page.

Product Gallery



Figure 1. Hqdefault 179



Figure 2. 100010048 Seed Studio Xiao Esp32C5



Figure 3. 100010048 Seed Studio Xiao Esp32C5



Figure 4. 100010048 Seed Studio Xiao Esp32C5



Figure 5. 100010048 Seed Studio Xiao Esp32C5



Figure 6. 100010048 Seed Studio Xiao Esp32C5



Figure 7. 100010048 Seeed Studio XIAO Esp32C5

Specification

2.4GHz Rod Antenna (2.81dBi)

2.4GHz Rod Antenna (2.81dBi)	
Product	XIAOESP32-C5
Chipset	ESP32-C5HR8
Processor	High-performance 32-bit RISC-V single-core microprocessor, upto240MHz and a low-power 32-bit RISC-V core at up to 48MHz (according to Datasheet, up to 20MHz p.69 of Technical Reference Manual v0.2)
SRAM	384KB
RSRAM	8MB
Flash	8MB
Interface	11xGPIOPin
1x AnalogPin + 4x Analog Pad on the reverse side	
1x I2C	
1x UART	
1xSPI	

Visual Reference

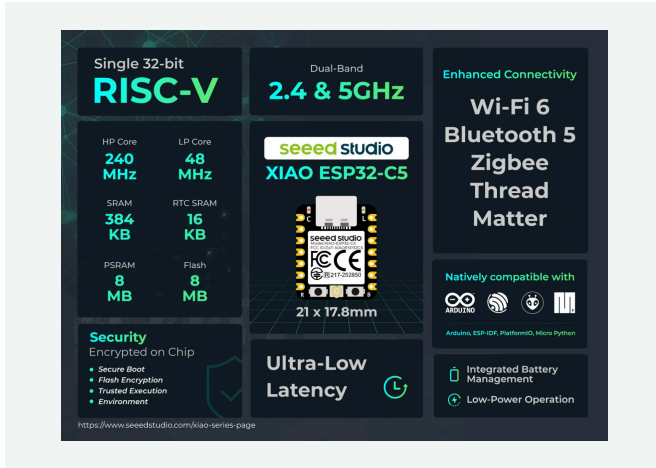


Figure 1. C5.1

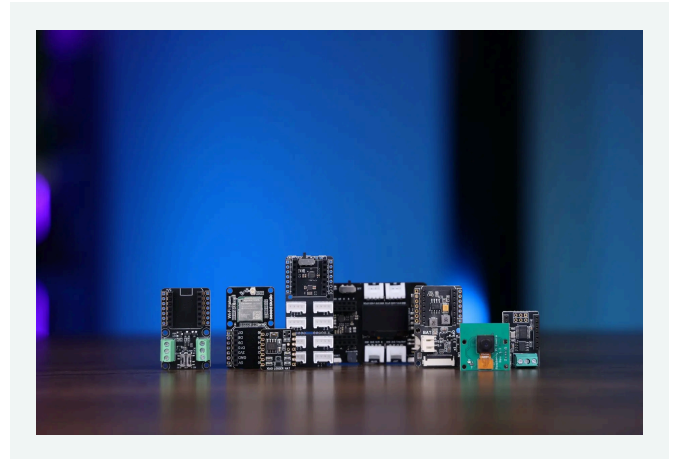


Figure 2. 100093057 Seeed Studio XIAO ESP32C5 Pre Solder

Hardware Overview

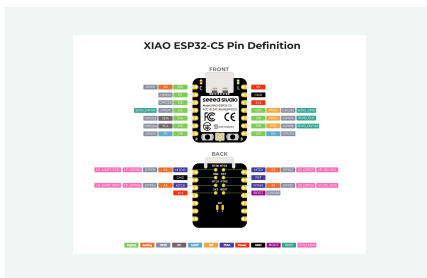


Figure 1. C5.2

Applications

SmartSensorNode

IoTGateway

BLETracker

Wi-FiButton

SecureEdgeDevice

Smart HomeAutomationDevice

Wireless Security Testing

Part List

XIAOESP32-C5	x1
FPCAntenna	x1
PinHeader	x2

Compliance & Logistics

HSCODE	8543709990
USHSCODE	8517180050
UPC	
EUHSCODE	8543709099
COO	CHINA

CertificationInfo	links
CE	CE_link
FCC	FCC_link
ROHS	ROHS_link
TELEC	TELEC_link
WEEE	WEEE_link

Logistics	Value
ECCN	5A992
HSCODE	8543709990
USHSCODE	8517180050
EUHSCODE	8543709099
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Seeed-Studio-XIAO-ESP32C5-p-6609.html>

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