seeed studio

INDUSTRIAL PRODUCT DATASHEET

Seeed Studio XIAO nRF52840 Sense (Pre-Soldered)

This is the pre-soldered version of Seeed Studio XIAO nRF52840 Sense , which is carrying Bluetooth 5.0 wireless capability and is able to operate with low power consumption.

SKU	UPDATED	PRICE
102010632	2026-11-11 09:06:32	$16.90(Excl. VAT)



Overview



This is the pre-soldered version of Seeed Studio XIAO nRF52840 Sense , which is carrying Bluetooth 5.0 wireless capability and is able to operate with low power consumption. Featuring onboard IMU and PDM, it can be your best tool for embedded Machine Learning projects.

Key Features

01 **Versatile Microcontroller**

Incorporate the Nordic nRF52840 chip with FPU, operating up to 64 MHz, mounted multiple development ports, supported by Arduino / CircuitPython

02 **Wireless Capabilities**

Implement Bluetooth Low Energy 5.4, BLE functions with onboard antenna, also provide NFC connectivity

03 **Elaborate Power Design**

Provide ultra-low power consumption as 5 μA in deep sleep mode while supporting lithium battery charge management

04 **Advanced onboard Functionality**

Assemble additional digital microphone and 6-axis IMU in the tiny board for embedded Machine Learning applications

05 **Thumb-sized Design**

21 x 17.8mm, Seeed Studio XIAO series classic form-factor, suitable for wearable devices

06 **tarter Kit with free Course for all Electronics Neophytes and Enthusiasts**

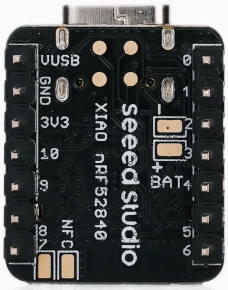
07 **We already have 10 XIAO products based on different solutions in the XIAO family, to help you better understand the differences and choose the most suitable part for your projects, please refer to the Seeed Studio XIAO Series Page.**

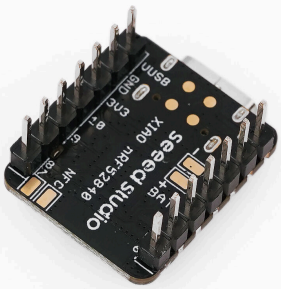
Product Gallery

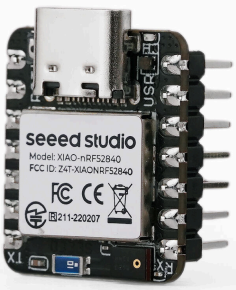


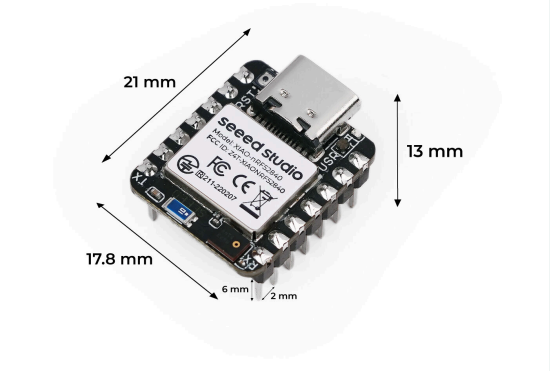




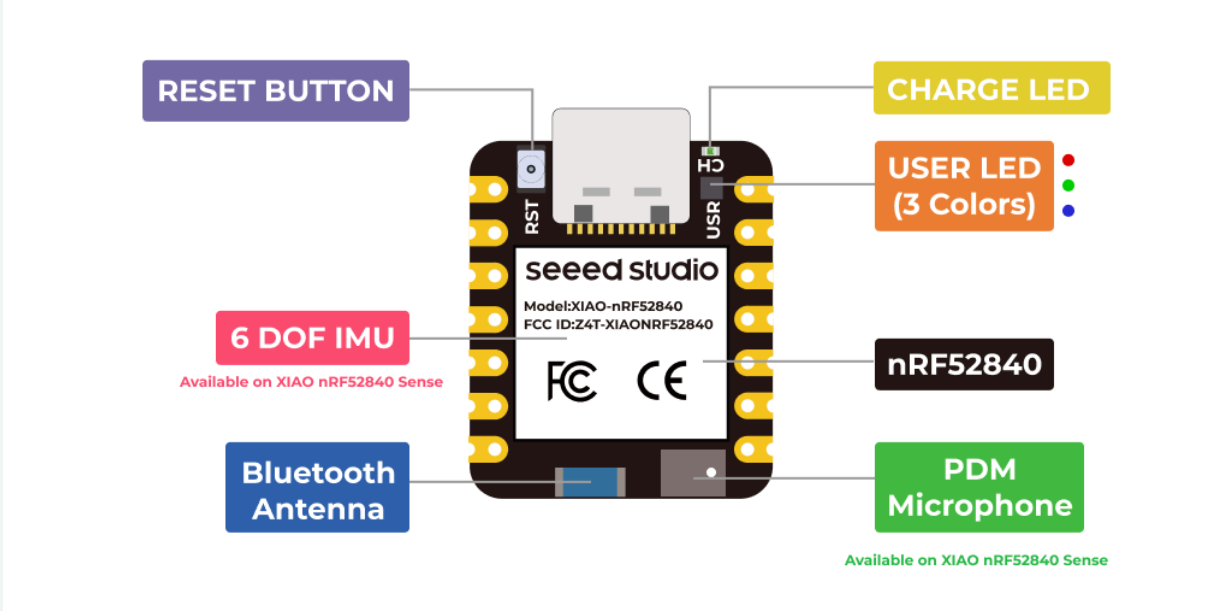


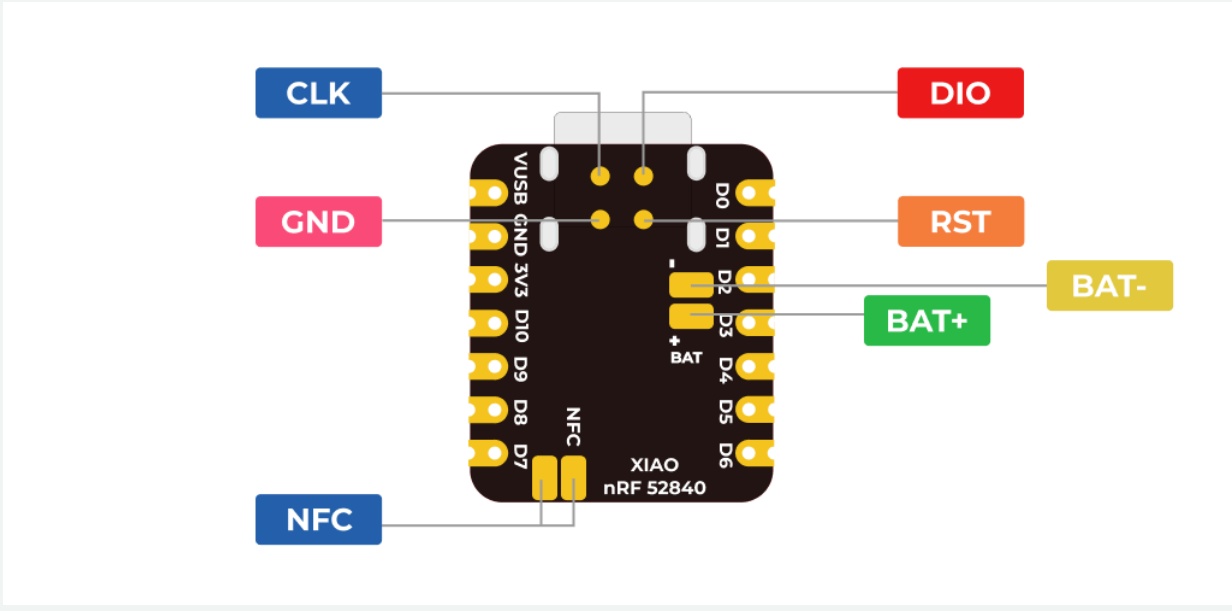


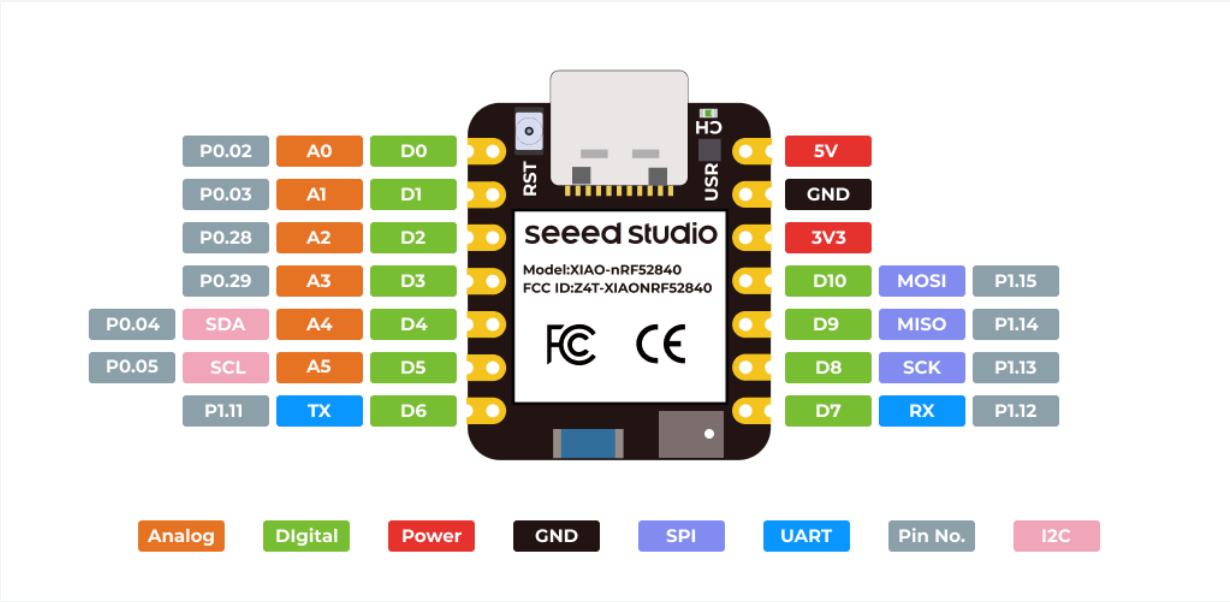



21 mm
13 mm
17.8 mm
6 mm
2 mm

Hardware Overview







Applications

- Small and flexible wearable device
- Wifi/Bluetooth controlled wireless connection project
- Embedded Machine Learning Project
- IoT and TinyML AI applications
- Great for mini Arduino projects

Resource Links

- https://www.seeedstudio.com/Seeed-Studio-XIAO-nRF52840-Sense-Pre-Soldered-p-6330.html
- Seeed Studio XIAO nRF52840 BLE Communication Distance Test Report
- TinyML Case Studies
- 3D Printing "Case" Studies
- PCN-XIAO Series Packaging Upgrade.pdf
- Wiki-XIAO nRF52840 Series Resources
- Seeed Studio XIAO Use Case

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