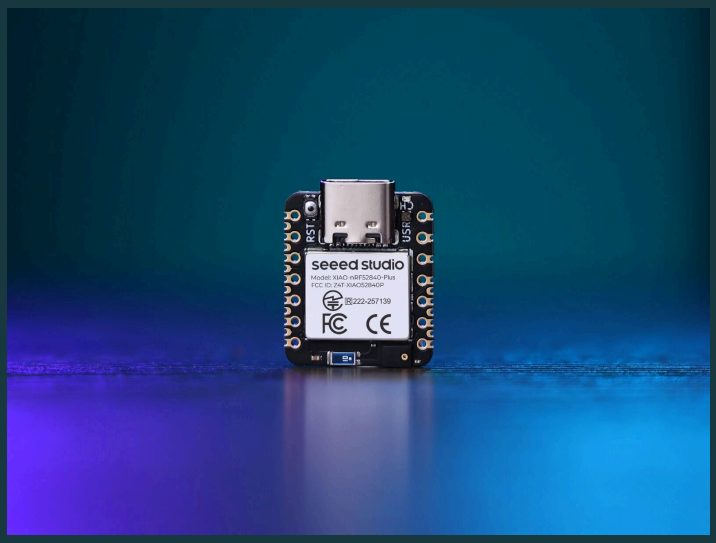
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INDUSTRIAL PRODUCT DATASHEET

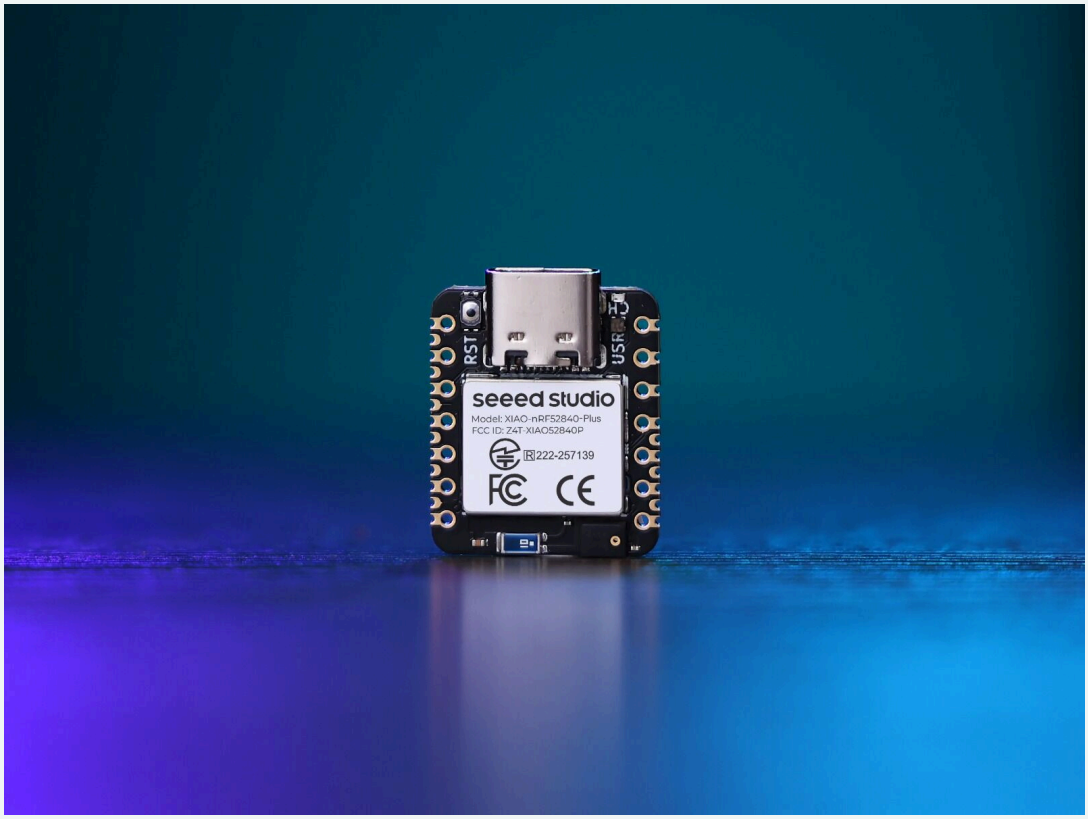
Seeed Studio XIAO nRF52840 Sense Plus

Seeed Studio XIAO nRF52840 Sense Plus, powered by Nordic chipset with FPU, brings more SMD pins to this tiny Bluetooth senor dev board.

SKU	UPDATED	PRICE
102010694	2026-11-11 09:10:34	$16.40(Excl. VAT)



Overview



Seeed Studio XIAO nRF52840 Sense Plus, powered by Nordic chipset with FPU, brings more SMD pins to this tiny Bluetooth senor dev board. While maintaining all the capabilities of the standard version including onboard IMU and PDM microphone, Bluetooth Low Energy 5.4, NFC, and low power consumption, this Plus variant features redesigned castellations and pad layout on the back, offering 9 additional GPIOs specifically for advanced Bluetooth projects requiring expanded I/Os via SMD board-to-board soldering. With native TensorFlow Lite, it's your ideal development platform for advanced embedded Machine Learning and AIoT projects.

Key Features

01 **High-Performance MCU**

Nordic Semiconductor's nRF52840 chip with FPU at 64 MHz, multiple development ports, compatible with Arduino/CircuitPython/MicroPython

02 **Onboard Sensing**

Integrated 6-axis IMU and PDM microphone enable motion sensing and audio input, ideal for wearable devices and compact ML applications

03 **Advanced Wireless Connectivity**

Bluetooth Low Energy 5.4 with built-in antenna and NFC support

04 **Efficient Power Management**

5 µA deep sleep consumption with integrated Li-ion battery charging

05 **Expanded 20 GPIOs**

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

06 **Universal Compatibility**

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

07 **Classic XIAO Form Factor**

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

08 **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).

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

Product Gallery





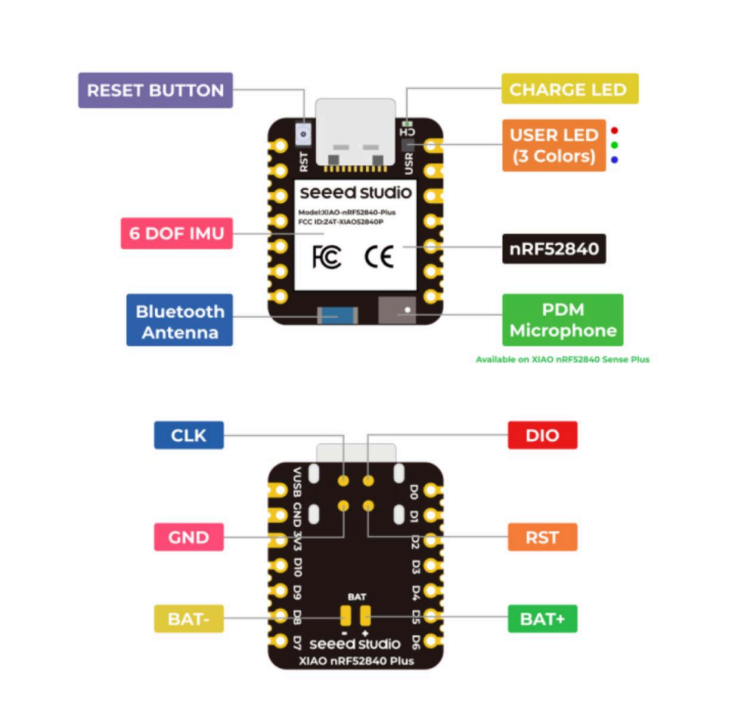


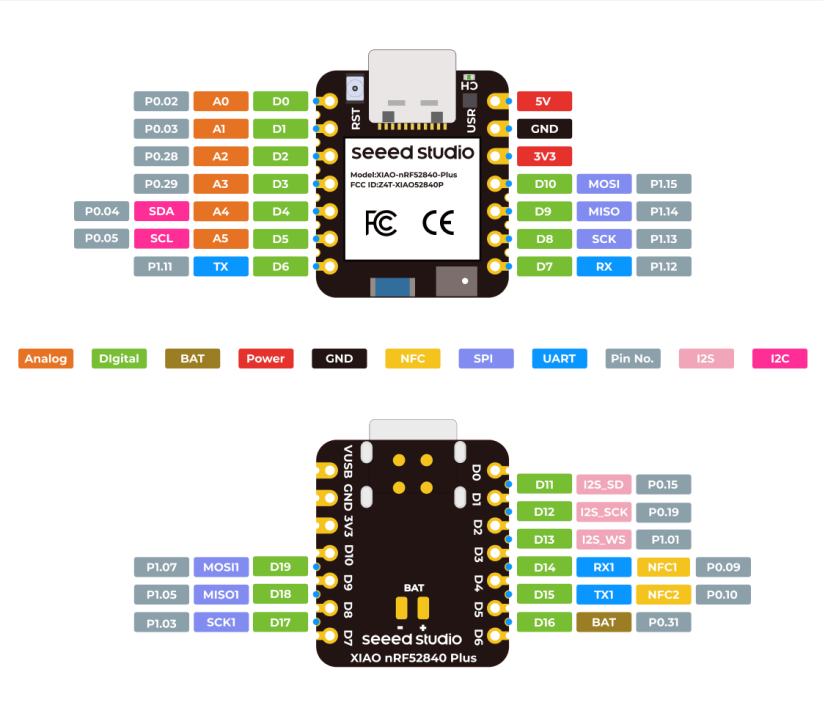


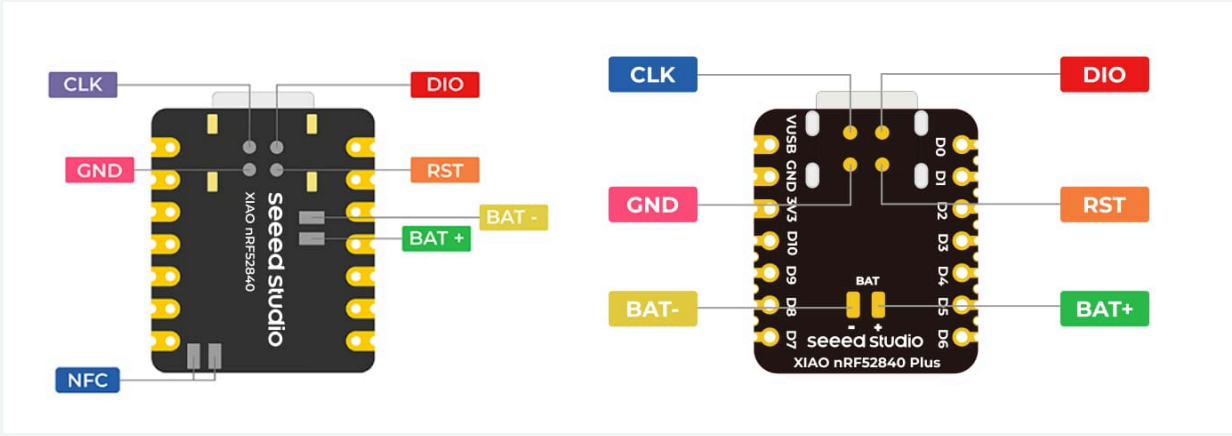




Hardware Overview







Applications

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

Resource Links

- https://www.seeedstudio.com/Seeed-Studio-XIAO-nRF52840-Sense-Plus-p-6360.html
- PCN-XIAO Series Packaging Upgrade.pdf
- Wiki-XIAO nRF52840 Series Resources
- Seeed Studio XIAO Use Case

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