

INDUSTRIAL PRODUCT DATASHEET

Seeed Studio XIAO nRF52840 Plus(Tape & Reel)

The Seeed Studio XIAO nRF52840 Plus (Tape & Reel) is a tiny Bluetooth 5.0 SoM with 20 GPIOs and Arduino/CircuitPython support for automated SMT production.

SKU

101991464

UPDATED

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PRICE

\$9.90(Excl. VAT)



Tape & Reel

Overview



Tape & Reel

Seeed Studio XIAO nRF52840 Plus (101991464) is a Bluetooth 5.0/NFC SoM powered by Nordic's nRF52840 chip with FPU at 64 MHz, featuring 20 GPIOs (including 9 extra SMD castellated pins) and compatibility with Arduino, CircuitPython, and MicroPython. Its tape & reel packaging, 21 x 17.8mm form factor, 5 μ A deep sleep, and integrated Li-ion charging make it perfect for wearables, IoT, and embedded machine learning applications.

Key Features

Seeed Studio XIAO nRF52840 Plus, powered by Nordic chipset with FPU, brings more SMD pins to our popular Bluetooth-enabled board. While maintaining all the capabilities of the standard version including Bluetooth 5.0, 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.

Note:

This 101991464, Seeed Studio XIAO nRF52840 Plus(Tape & Reel) is specifically designed for Surface Mount Technology (SMT) production. This variant comes in a Tape & Reel package for seamless integration into automated assembly lines and does not include pin headers.

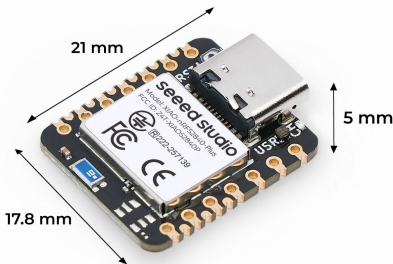
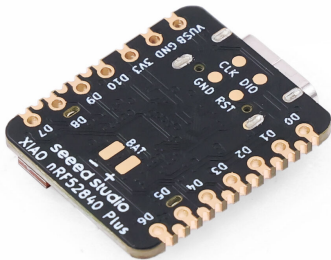
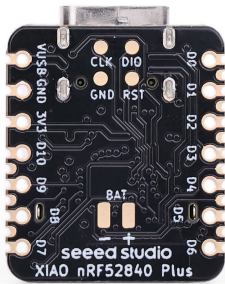
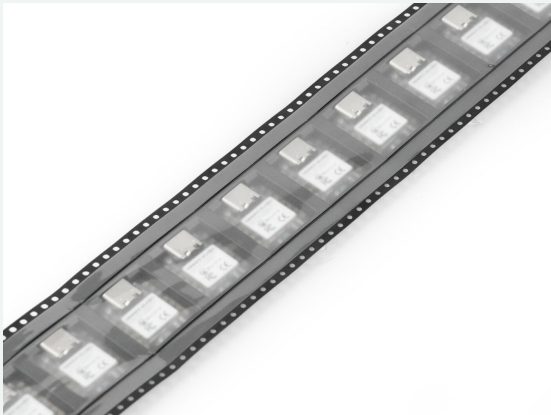
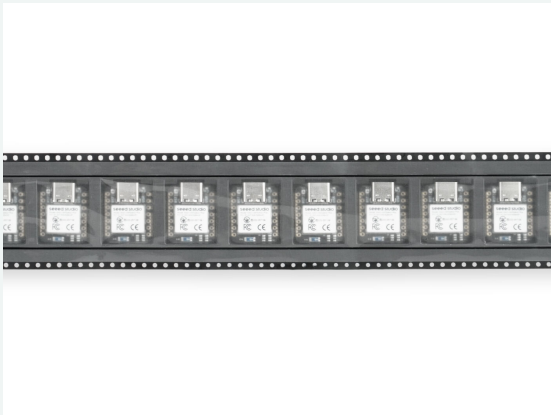
- **High-Performance MCU:** Nordic Semiconductor's nRF52840 chip with FPU at 64 MHz, multiple development ports, compatible with Arduino/CircuitPython/MicroPython
- **Advanced Wireless Connectivity:** Bluetooth 5.0 with built-in antenna and NFC support
- **Efficient Power Management:** 5 μ A deep sleep consumption with integrated Li-ion battery charging
- **Expanded 20 GPIOs:** 9 extra 1.27mm pitch SMD castellation pins beyond standard XIAO nRF52840
- **Universal Compatibility:** Standard backside layout (with aligned battery pads, and debugger pads) for more to-be-released XIAO expansion boards
- **Classic XIAO Form Factor:** 21 x 17.8mm design, single-sided mounting for wearables and space-constrained projects
- **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).

As a new addition to the [Seeed Studio XIAO family](#), the XIAO nRF52840 Plus remains the classic XIAO design (thumb-size, SMD, stamp holes). All these features make it a perfect fit for either space-limited applications, or a production-ready System on Module (SoM) for your PCBA designs. (check out our [Fusion Co-Create one-stop prototyping, producing and promoting services](#) to explore how to scale up your XIAO-based designs).

Note:

XIAO SoM User Manual open-sources all hardware and software materials of XIAO, providing professional product design guidelines to help you accelerate ideas off the ground, streamline product design, providing a seamless experience from module selection to mass production. You can check [here](#) to see more info.

Product Gallery

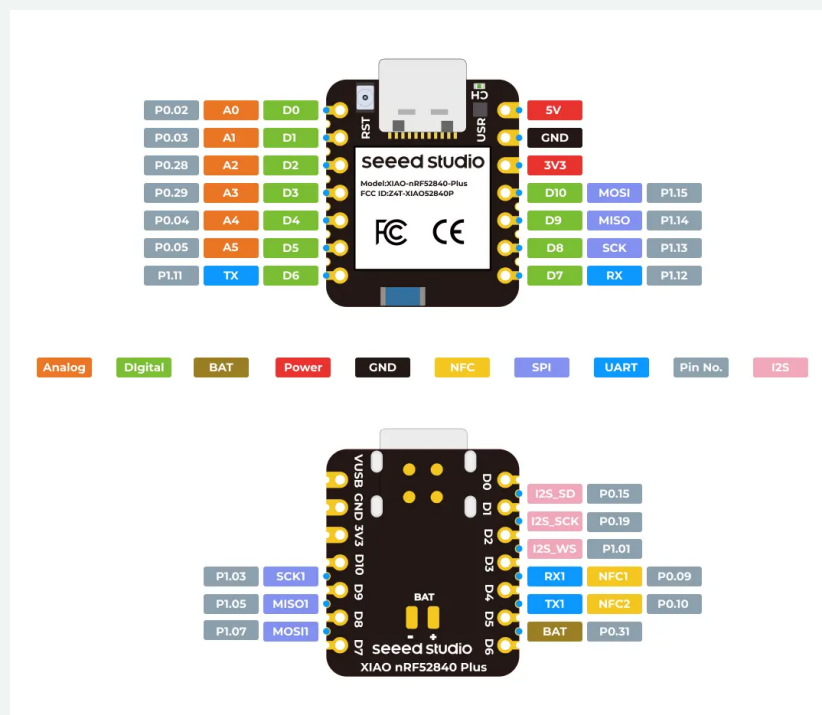
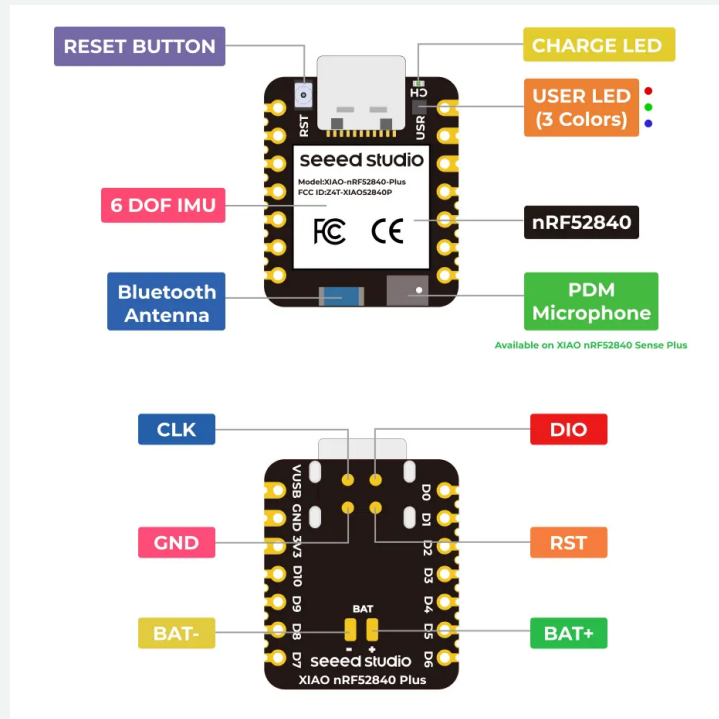


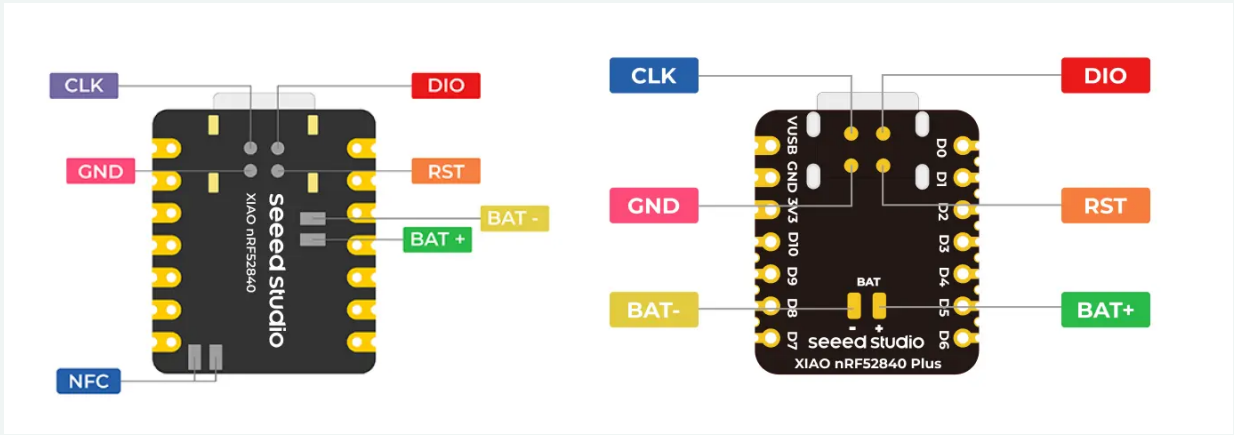
Specification

Item	Seeed Studio XIAO nRF52840	Seeed Studio XIAO nRF52840 Plus	Seeed Studio XIAO nRF52840 Sense Plus
Processor	Nordic nRF52840, ARM® Cortex®-M4 32-bit processor with FPU, 64 MHz		

Wireless Connectivity	Bluetooth 5.0/BLE/NFC	
Memory	256KB RAM,1MB Flash 2MB onboard Flash	
Built-in Sensors	N/A	6 DOF IMU (LSM6DS3TR-C), PDM Microphone
Interfaces	1xI2C 1xUART 1xSPI	1xI2C 2xUART 2xSPI 1xI2S
PWM/Analog Pins	6 November	20 June
Onboard Buttons	Reset Button	
Onboard LEDs	3-in-one LED/ Charge LED	
Battery Charge Chip	BQ25101	
Programming Languages	Arduino/MicroPython/CircuitPython	

Hardware Overview





Applications

- Wearable devices
- IoT Wireless devices
- Embedded machine learning projects
- Mini Arduino projects

Part List

Seeed Studio XIAO nRF52840 Plus	x1
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Compliance & Logistics

HSCODE	8543709990
USHSCODE	8517180050
UPC	
EUHSCODE	8543709099
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Seeed-Studio-XIAO-nRF52840-Plus-Tape-Reel-p-6676.html>
- [Wiki](#)
- [Schematic](#)
- [Datasheet](#)

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