

INDUSTRIAL PRODUCT DATASHEET

# Seeed Studio XIAO nRF52840 Plus

Seeed Studio XIAO n RF 52840 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 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

SKU

102010672

UPDATED

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PRICE

\$10.40(Excl. VAT)



# Overview



Figure 1. 102010672 Seedstudio XIAO nRF52840 Plus 1

Seed Studio XIAO n RF 52840 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 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.

# 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

### Advanced Wireless Connectivity

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

03

### Efficient Power Management

5  $\mu$ A deep sleep consumption with integrated Li-ion battery charging

04

### Expanded 20 GPIOs

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

05

### Universal Compatibility

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

06

### Classic XIAO Form Factor

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

07

**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).

08

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

# Product Gallery



Figure 1. Seed Studio XIAO nRF52840 Plus



Figure 2. 102010672 Seedstudio XIAO nRF52840 Plus 45Font 1



Figure 3. 102010672 Seedstudio XIAO nRF52840 Plus Font 1



Figure 4. 102010672 Seedstudio XIAO nRF52840 Plus Back 1

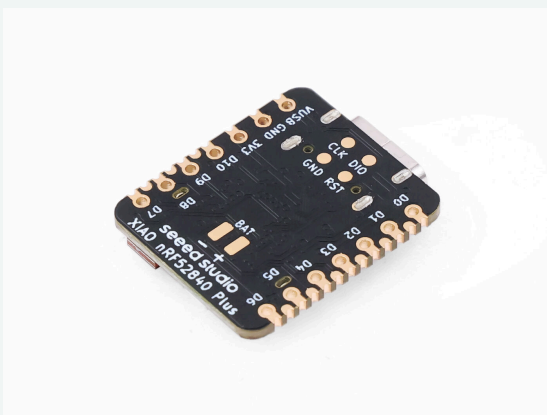


Figure 5. 102010672 Seedstudio XIAO nRF52840 Plus 45Back 1



Figure 6. 102010672 Seedstudio XIAO nRF52840 Plus Size 1

# Specification

Item	Seed Studio XIAO nRF52840	Seed Studio XIAO nRF52840 Plus	Seed Studio XIAO nRF52840 Sense Plus
Processor	Nordic nRF52840, ARM® Cortex®-M4 32-bit processor with FPU, 64 MHz		
Wireless Connectivity	Bluetooth Low Energy 5.4/Bluetooth Mesh/NFC		
Memory	256KB RAM,1MB Flash 2MB onboard Flash		
Built-in Sensors	N/A	1x6 DOF IMU (LSM6DS3TR-C)1xPDM Microphone	
Interfaces	1xI2C1xUART1xSPI	1xI2C2xUART2xSPI1xI2S	
PWM/Analog Pins	11/6	20/6	
Onboard Buttons	1x Reset Button		
Onboard LEDs	3-in-one LED/ Charge LED		
Battery Charge Chip	BQ25101		
Programming Languages	Arduino/MicroPython/CircuitPython		

# Visual Reference

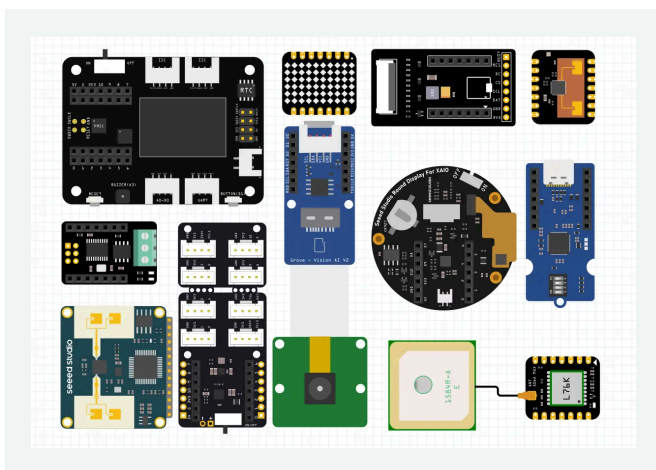


Figure 1. Image1 7



Figure 2. XIAO 1

# Hardware Overview

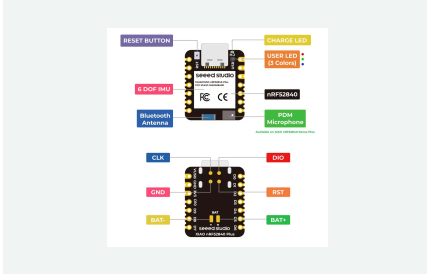


Figure 1. Image21

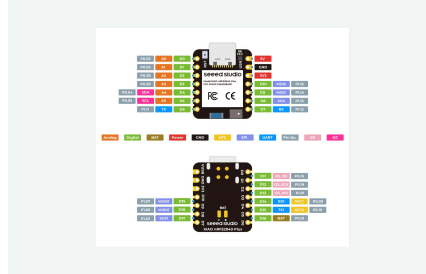


Figure 2. Plus Pinout

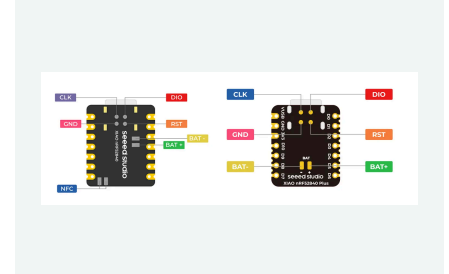


Figure 3. Image22

# Applications

Wearable devices

IoT Wireless devices

Embedded machine learning projects

Mini Arduino projects

# Part List

Seed Studio XIAO nRF52840 Plus	x1
7 Pin Header	x2

# Compliance & Logistics

HSCODE	8543709990
USHSCODE	8517180050
UPC	
EUHSCODE	8543709099
COO	CHINA

CertificationInfo	links
CE	<a href="#">CE_link</a>
FCC	<a href="#">FCC_link</a>
ROHS	<a href="#">ROHS_link</a>
TELEC	<a href="#">TELEC_link</a>
UKDOC	<a href="#">UKDOC_link</a>

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

## Resource Links

- <https://www.seeedstudio.com/Seeed-Studio-XIAO-nRF52840-Plus-p-6359.html>
- [PCN-XIAO Series Packaging Upgrade.pdf](#)
- [Wiki-XIAO nRF52840 Series Resources](#)
- [Seeed Studio XIAO Use Case](#)

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