

# Seeed Studio XIAO nRF52840 Sense (Tape & Reel)

This is the Tape & Reel version of Seeed Studio XIAO n RF 52840 Sense by Nordic. This packaging format is designed for automated SMT assembly and high-volume production. XIAO n RF 52840 Sense carries Bluetooth Low Energy 5.4 wireless capability and operates with ultra-low power consumption. Featuring onboard IMU and PDM microphone, it is an excellent choice for embedded

SKU

101991465

UPDATED

2026-04-15 06:58:01

PRICE

\$15.40(Excl. VAT)



# Overview



Figure 1. Seeed Studio XIAO Nrf52840 Sense Tape Reel

This is the Tape & Reel version of Seeed Studio XIAO n RF 52840 Sense by Nordic. This packaging format is designed for automated SMT assembly and high-volume production. XIAO n RF 52840 Sense carries Bluetooth Low Energy 5.4 wireless capability and operates with ultra-low power consumption. Featuring onboard IMU and PDM microphone, it is an excellent choice for embedded Machine Learning, sensor fusion, and voice recognition 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  $\mu$ A 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

### Production-Ready Design with Fusion PCBA Support

07

**Starter Kit with free Course  
for all Electronics Neophytes  
and Enthusiasts**

08

**We already have 8 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

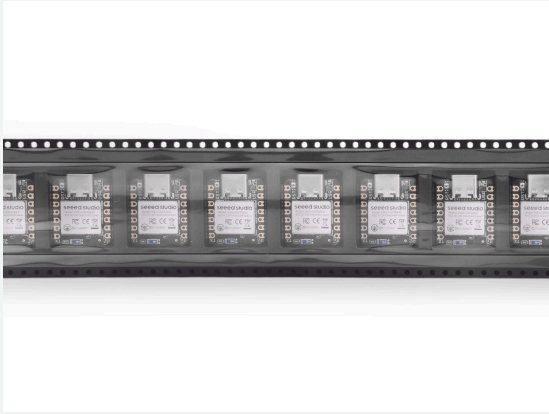


Figure 1. Seed Studio XIAO nRF52840 Sense Tape Reel

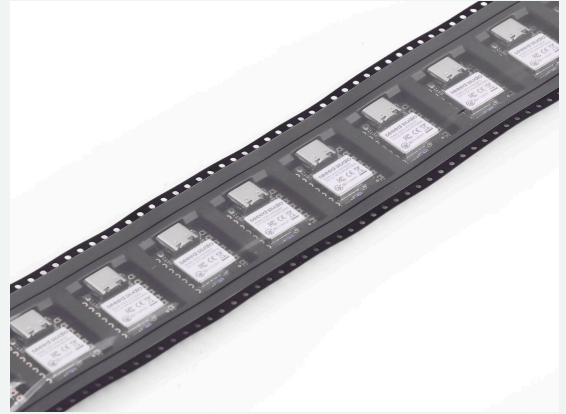


Figure 2. Seed Studio XIAO nRF52840 Sense Tape Reel

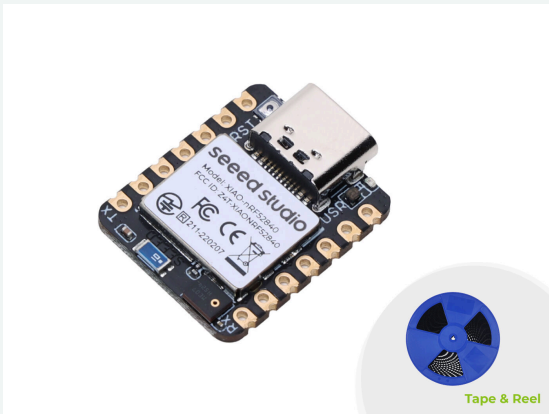


Figure 3. Seed Studio XIAO nRF52840 Sense Tape Reel 2

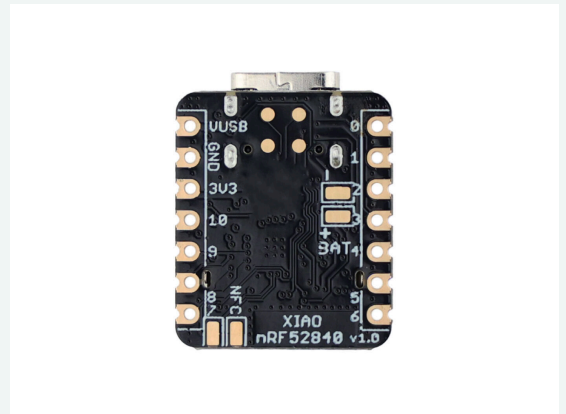


Figure 4. Seed Studio XIAO nRF52840 Sense Tape Reel



Figure 5. Seed Studio XIAO nRF52840 Sense Tape Reel

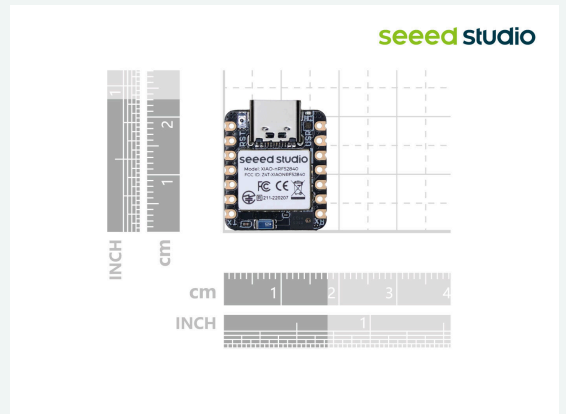


Figure 6. Seed Studio XIAO nRF52840 Sense Tape Reel

# Specification

Item	Seed Studio XIAO nRF52840(Tape & Reel)	Seed Studio XIAO nRF52840 Sense (Tape & Reel)
Processor	Nordic nRF52840	
ARM® Cortex®-M4 with FPU runs up to 64 MHz		
Wireless	Bluetooth Low Energy 5.4/Bluetooth Mesh/NFC	
On-chip Memory	1 MB flash and 256 kB RAM	
Onboard Memory	2 MB QSPI flash	
Interface	1xUART1xIIC1xSPI1xNFC1xSWD	
11xGPIO(PWM)6xADC		
Sensors	/	1xOnboard PDM digital microphone
1xOnboard 6-axis IMU		
Dimensions	21 x 17.8mm	
Power(Typ.)	Circuit operating voltage: 3.3V@200mA	
Charging current: 50mA(Fast) / 100mA(Trickle)		
Input voltage (VIN): 5VInput voltage (BAT): 3.7V		
Standby power consumption: <5μA		

# Visual Reference



Figure 1. XIAO 1



Figure 2. Seed Studio XIAO nRF52840 Sense(Tape & Reel)

# Hardware Overview

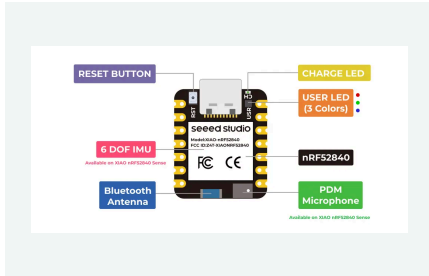


Figure 1. Front1

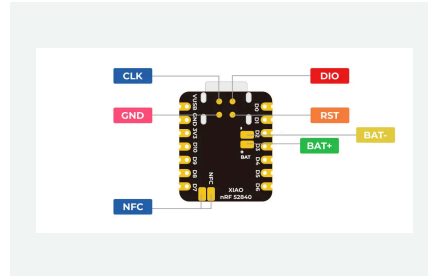


Figure 2. Bottom

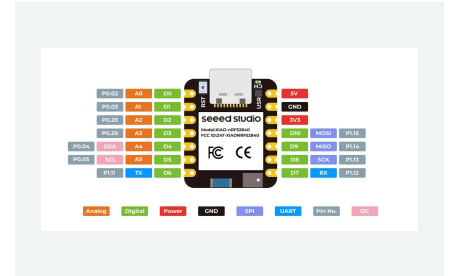


Figure 3. Pinout

# 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

# Part List

Seed Studio XIAO52840Sense (Tape&Reel)	x1
--	----

# Compliance & Logistics

HSCODE	8543709990
USHSCODE	8517180050
UPC	
EUHSCODE	8543709099
COO	CHINA

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

## Resource Links

- <https://www.seeedstudio.com/Seeed-Studio-XIAO-nRF52840-Sense-Tape-Reel-p-6566.html>
- [Seeed Studio XIAO nRF52840 BLE Communication Distance Test Report](#)
- [TinyML Case Studies](#)
- [3D Printing "Case" Studies](#)
- [Wiki-XIAO nRF52840 Series Resources](#)
- [Seeed Studio XIAO Use Case](#)

**Seeed Technology Co.,Ltd.**

9F, Building G3, International E City,  
Zhongshanyuan Road, Nanshan, Shenzhen, China

**Tel:** +86 0755-80695676**Web:** [www.seeed.cc](http://www.seeed.cc)**Shop:** [www.seeedstudio.com](http://www.seeedstudio.com)