

INDUSTRIAL PRODUCT DATASHEET

Seeed Studio XIAO nRF52840(Tape & Reel)

This is the Tape & Reel version of Seeed Studio XIAO n RF 52840 by Nordic. This packaging format is designed for automated SMT assembly and large-scale production. XIAO n RF 52840 carries wireless capability for the first time and supports Bluetooth Low Energy 5.4, while operating with low power consumption. It will be your best microcontroller choice for Bluetooth

SKU

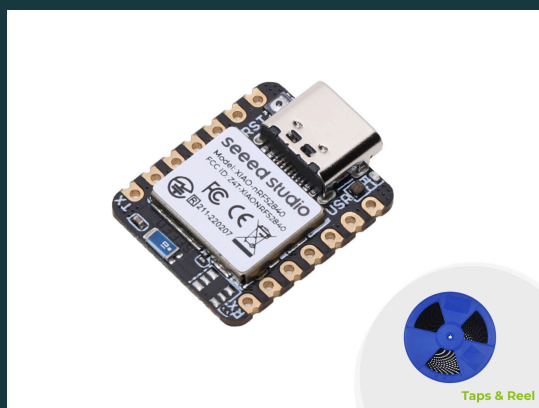
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UPDATED

2026-04-15 06:58:00

PRICE

\$9.40(Excl. VAT)



Overview



Figure 1. Seed Studio XIAO nRF52840 Tape Reel

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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 / Micropython

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 μ A in deep sleep mode while supporting lithium battery charge management

04

Thumb-sized Design

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

05

Perfect for Production

Breadboard-friendly & SMD design, no components on the back

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

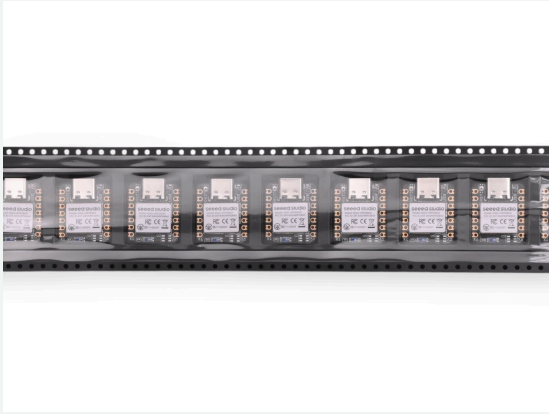


Figure 1. Seede Studio XIAO nRF52840 Tape Reel

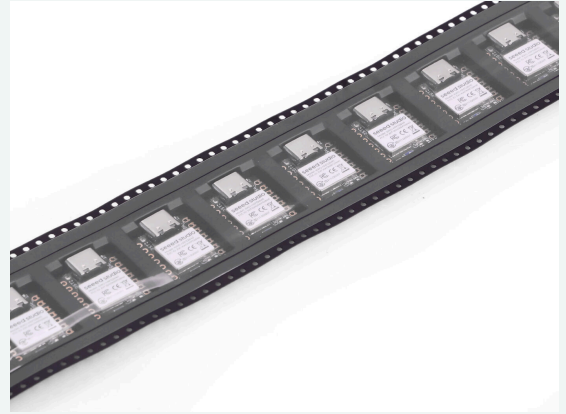


Figure 2. Seede Studio XIAO nRF52840 Tape Reel



Figure 3. Seede Studio XIAO nRF52840 Tape Reel

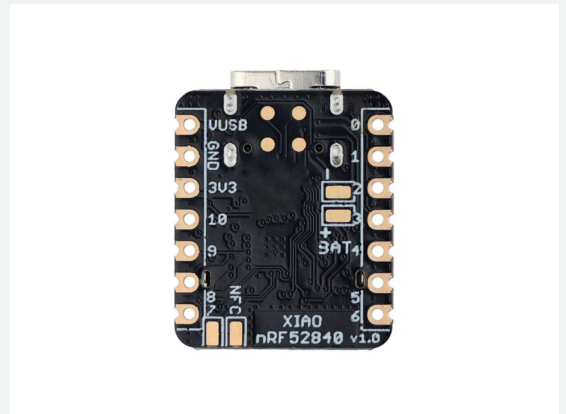


Figure 4. Seede Studio XIAO nRF52840 Tape Reel

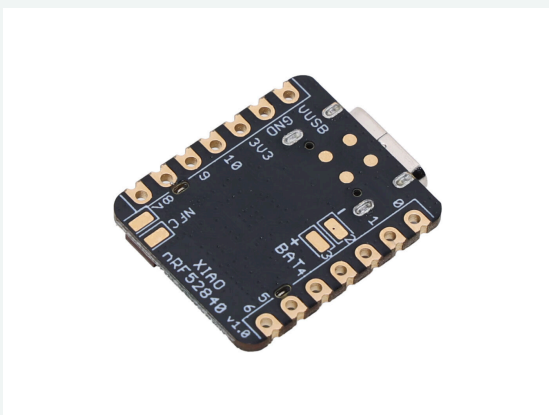


Figure 5. Seede Studio XIAO nRF52840 Tape Reel

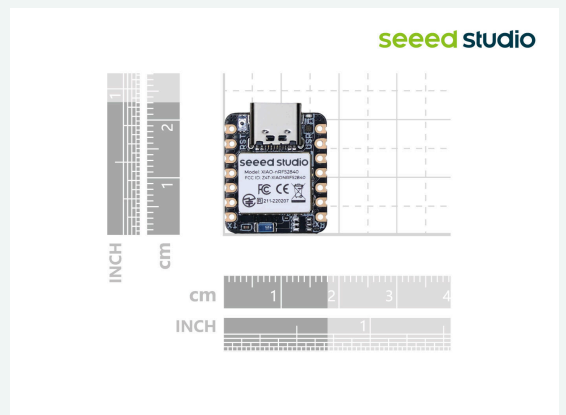


Figure 6. Seede Studio XIAO nRF52840 Tape Reel

Specification

To better support IoT and TinyML AI projects, there is an advanced version "Tiny BLE MCU with onboard sensors for TensorFlow Lite - XIAO nRF52840 Sense" that carries an extra 6-axis IMU and a PDM microphone.

Item	Seeed Studio XIAO nRF52840	Seeed Studio XIAO nRF52840 Sense
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/100mA		
Input voltage (VIN): 5V Input voltage (BAT): 3.7V		
Standby power consumption: <5μA		

Visual Reference



Figure 1. XIAO 1



Figure 2. Image 1

Hardware Overview

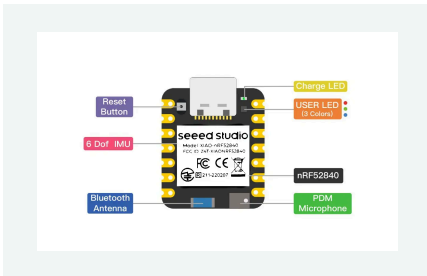


Figure 1. Seed Studio XIAO nRF52840(Tape & Reel)

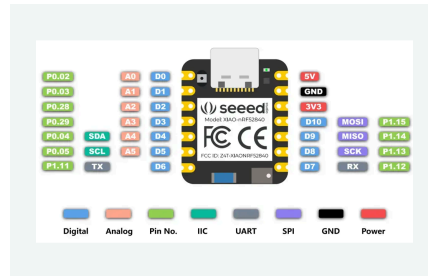


Figure 2. E

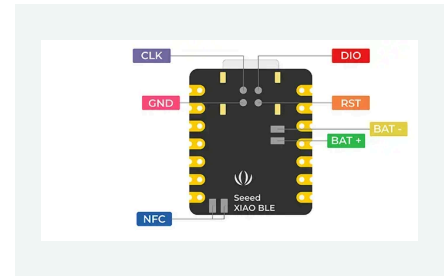


Figure 3. E

Applications

Wearable devices

Wireless connect

Embedded machine learning projects

Perfect for mini Arduino projects

Tiny Machine Learning application

Part List

Seeed Studio XIAOnRF52840 (Tape&Reel)	x1
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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-Tape-Reel-p-6564.html>
- [Seeed Studio XIAO nRF52840 BLE Communication Distance Test Report](#)
- [3D Printing "Case" Studies](#)
- [Wiki-XIAO nRF52840 Series Resources](#)
- [Seeed Studio XIAO Use Case](#)

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