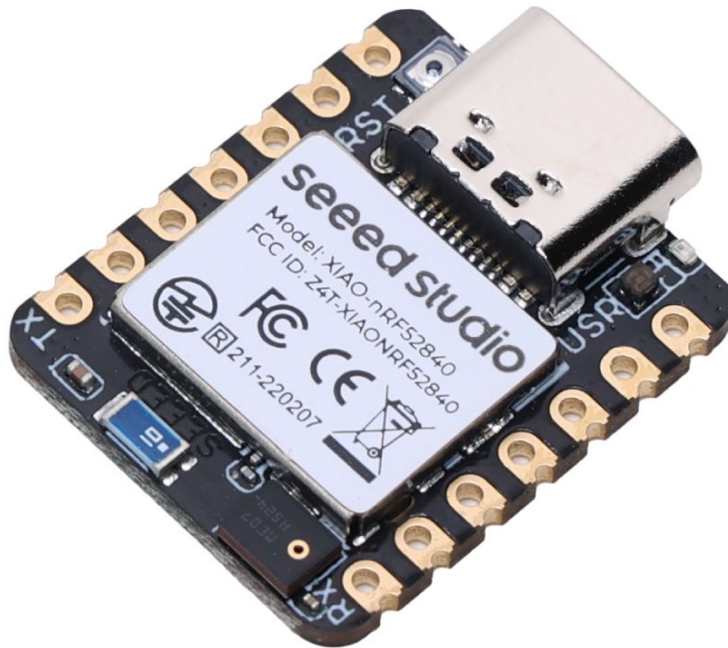# Seeed Studio XIAO nRF52840 Sense - TinyML/TensorFlow Lite- IMU / Microphone - Bluetooth5

Features

- **Versatile Microcontroller:** Incorporate the Nordic nRF52840 chip with FPU, operating up to 64 MHz, mounted multiple development ports, supported by Arduino / CircuitPython
- **Wireless Capabilities:** Implement Bluetooth 5.0, BLE functions with onboard antenna, also provide NFC connectivity
- Elaborate Power Design: Provide **ultra-low power consumption** as 5 µA in deep sleep mode while supporting lithium **battery charge management**
- **Advanced onboard Functionality:** Assemble additional digital microphone and 6-axis IMU in the tiny board for embedded Machine Learning applications
- **Thumb-sized Design:** 21 x 17.5mm, Seeed Studio XIAO series classic form-factor, suitable for wearable devices

Specification

Item	Seeed Studio XIAO nRF52840	Seeed Studio XIAO nRF52840 Sense
Processor	Nordic nRF52840	The same as Seeed Studio XIAO nRF52840
	ARM® Cortex®-M4 with FPU runs up to 64 MHz	
Wireless	Bluetooth 5.0/NFC	The same as Seeed Studio XIAO nRF52840
On-chip Memory	1 MB flash and 256 kB RAM	The same as Seeed Studio XIAO nRF52840
Onboard Memory	2 MB QSPI flash	The same as Seeed Studio XIAO nRF52840
Interface	1xUART, 1xIIC, 1xSPI, 1xNFC, 1xSWD,	The same as Seeed Studio XIAO nRF52840
	11xGPIO(PWM), 6xADC	
Sensors	-	Onboard PDM digital microphone
		Onboard 6-axis IMU
Dimensions	21 x 17.5mm	The same as Seeed Studio XIAO nRF52840
Power	Circuit operating voltage: 3.3V@200mA	The same as Seeed Studio XIAO nRF52840
	Charging current: 50mA/100mA	
	Input voltage (VIN): 5V	
	Standby power consumption: <5µA	

ECCN/HTS

HSCODE	8543709990
USHSCODE	8543708800
UPC	
EUHSCODE	8543709099
COO	CHINA

CE	1
EU DoC	1
FCC	1
RoHS	1
TELEC	1
UK DoC	1