

INDUSTRIAL PRODUCT DATASHEET

XIAO nRF52840 & Wio-SX1262 Kit for Meshtastic

The XIAO nRF52840 & Wio-SX1262 Kit for Meshtastic is an ultra-small 8mm × 22mm × 23mm board with Nordic nRF52840, Semtech SX1262 LoRa (868/915 MHz), Bluetooth and LoRa dual modes, and integrated antenna.

SKU

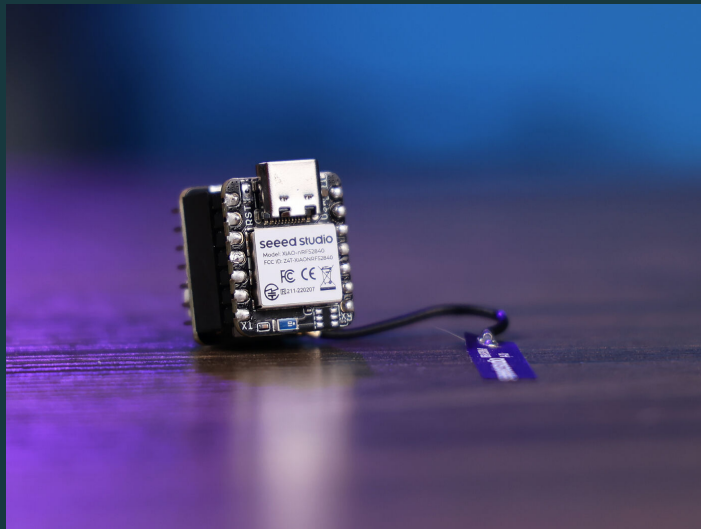
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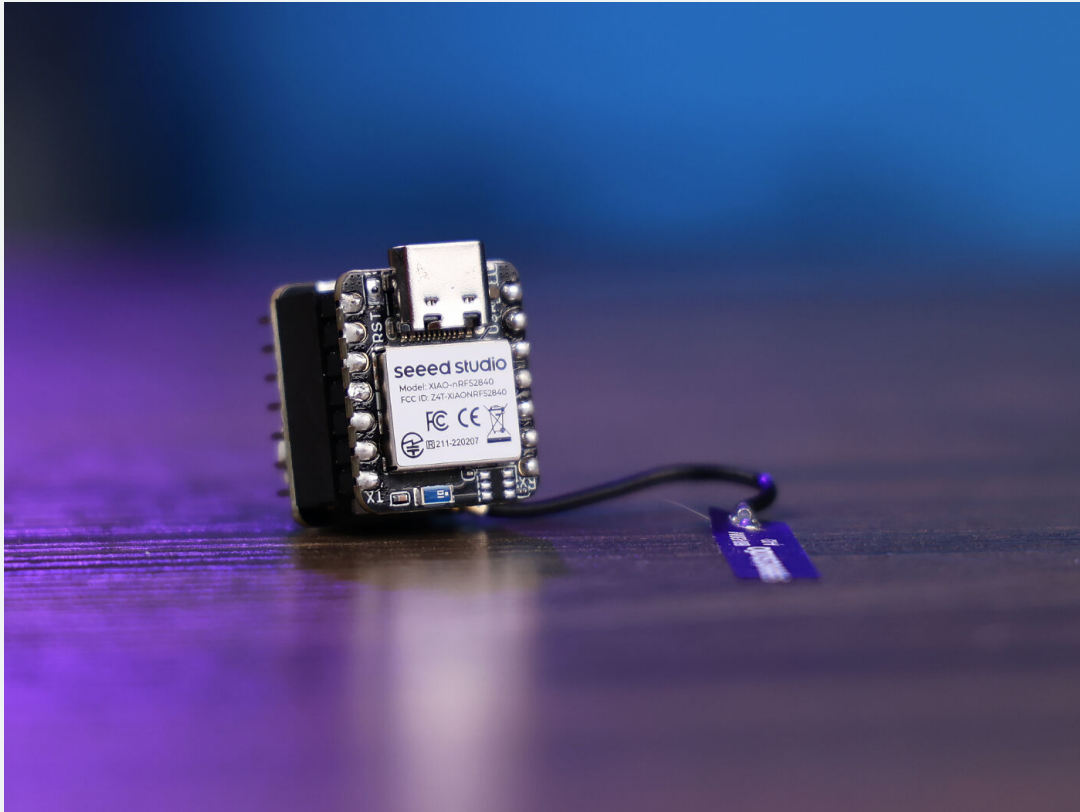
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PRICE

\$13.49(Excl. VAT)



Overview



The XIAO nRF52840 & Wio-SX1262 Kit for Meshtastic combines a Nordic nRF52840 microcontroller (with FPU, up to 64 MHz, Arduino/CircuitPython/Micropython support) with a Semtech SX1262 LoRa transceiver supporting 868/915 MHz bands, Bluetooth and LoRa dual modes, and an integrated antenna in an 8mm × 22mm × 23mm form factor. It is designed for Meshtastic Node&Router use as an ultra-small portable device or fixed router, and as a mini LoRa/LoRaWAN sensor for beginners exploring LoRa/LoRaWAN.

Key Features

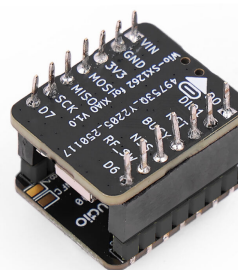
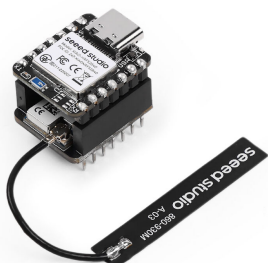
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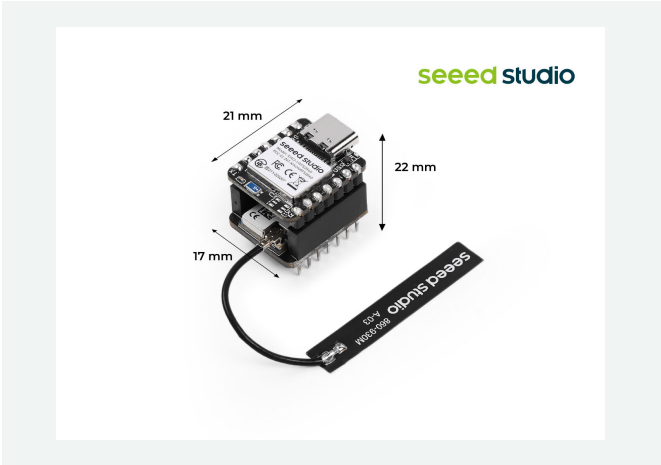
If you want to buy the compatible SX1262 for the nRF52840 separately, [Click here](#).

The SX1262 in this kit **IS NOT** compatible with Xiao ESP32S3.

- **Versatile Microcontroller:** Incorporate the [Nordic nRF52840](#) chip with FPU, operating up to 64 MHz, mounted multiple development ports, supported by Arduino / CircuitPython / Micropython
- **Powerful LoRa Performance:** Long-range LoRa on Semtech SX1262, supports 868/915 MHz bands.
- **Dual-core communication:** It supports both Bluetooth and LoRa dual modes, enabling cross-domain interconnection.
- With dimensions of only **8mm × 22mm × 23mm**, it features an integrated antenna design.

Product Gallery

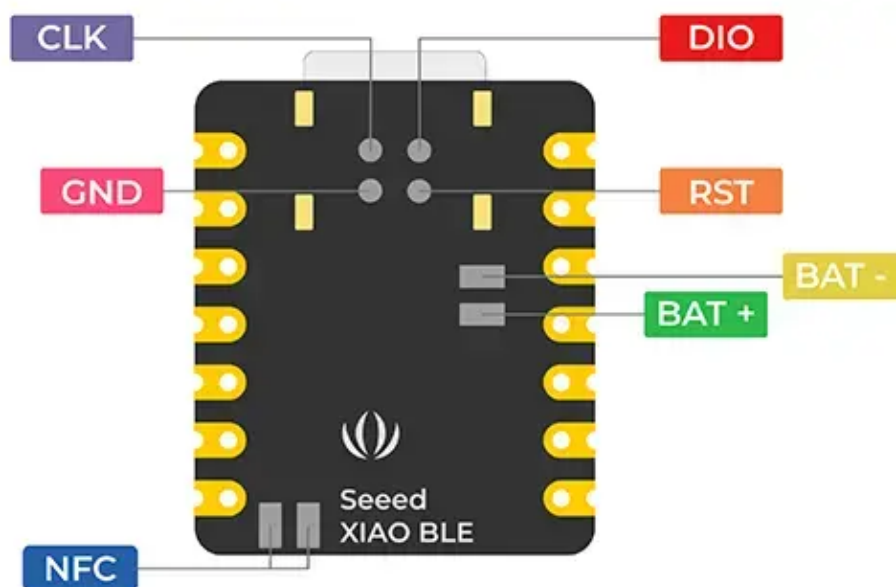
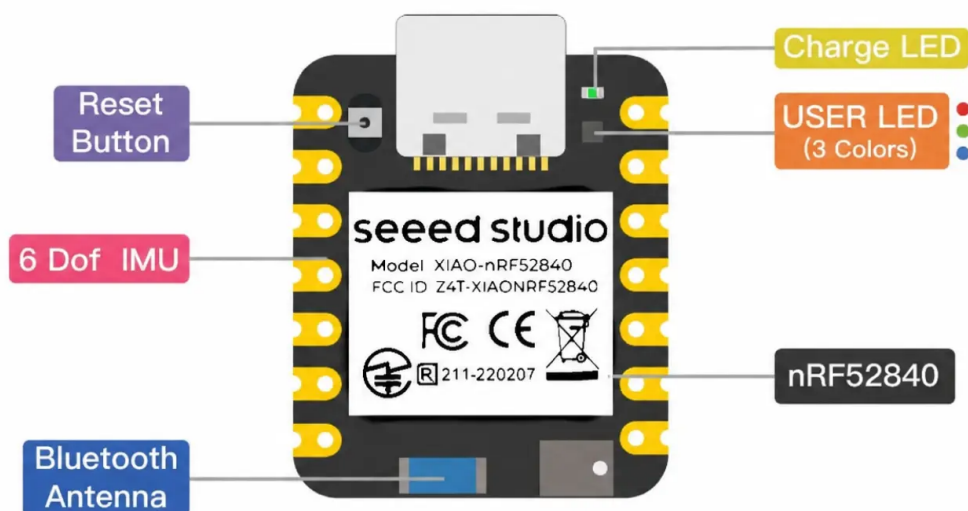


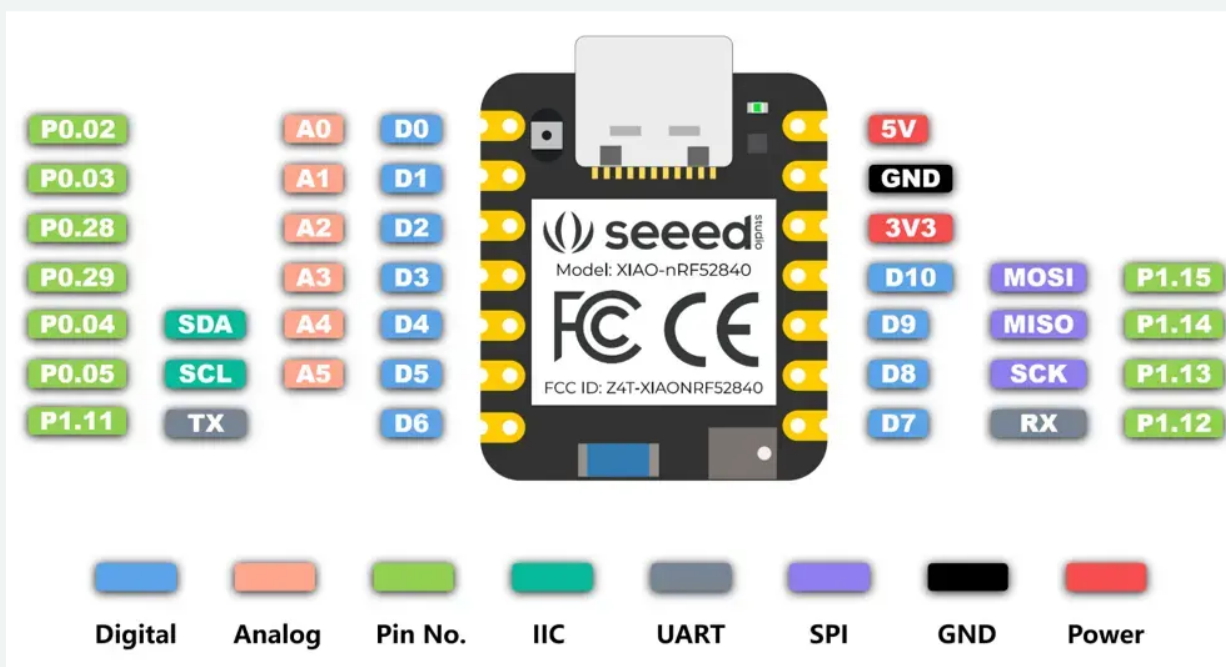


Specification

XIAO nRF52840	Nordic nRF52840 ARM® Cortex®-M4 with FPU runs up to 64 MHz
Wio-SX1262	Based on Semtech SX1262, supports 862-930MHz
Wireless	Bluetooth 5.0/NFC
Interface	XIAO nRF52840:1x UART, 1x IIC, 1x SPI(connect to SX1262),1x NFC, 1x SWD, 11x GPIO(PWM), 6x ADC Wio-SX1262:1xSPI(connect to XIAO nRF52840)
Power	Input voltage (Type-C): 5V Input voltage (BAT): 4.2V Charging battery current: 50mA/100mA Standby power consumption: <5uA
Working Temperature	-40°C ~ 65°C
Dimensions	21 x 17.8mm

Hardware Overview







Applications

- **Meshtastic Node&Router:** An ultra-small node that can serve as a portable device or as a fixed router to expand the Meshtastic network.
- **LoRa/LoRaWAN Sensor:** A mini LoRaWAN sensor, ideal for beginners exploring LoRa/LoRaWAN.

Part List

XIAO nRF52840	x1
Wio-SX1262 extension board	x1
LoRa antenna	x1

Compliance & Logistics

HSCODE	8543709990
USHSCODE	8517180050
UPC	
EUHSCODE	8543709099
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/XIAO-nRF52840-Wio-SX1262-Kit-for-Meshtastic-p-6400.html>
- [Wio-SX1262 Module Datasheet](#)
- [XIAO Reference Design](#)
- [Seeed Studio XIAO nRF52840 BLE Communication Distance Test Report](#)
- [Seeed Studio XIAO nRF52840 CE | FCC | MIC](#)
- [Schematic diagram of Wio-SX1262 for XIAO](#)
- [XIAO nRF52840 Kit Kicad Library](#)
- [Xiao nRF52840 & Wio-SX1262 Kit Consumption Calculation Sheet](#)

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