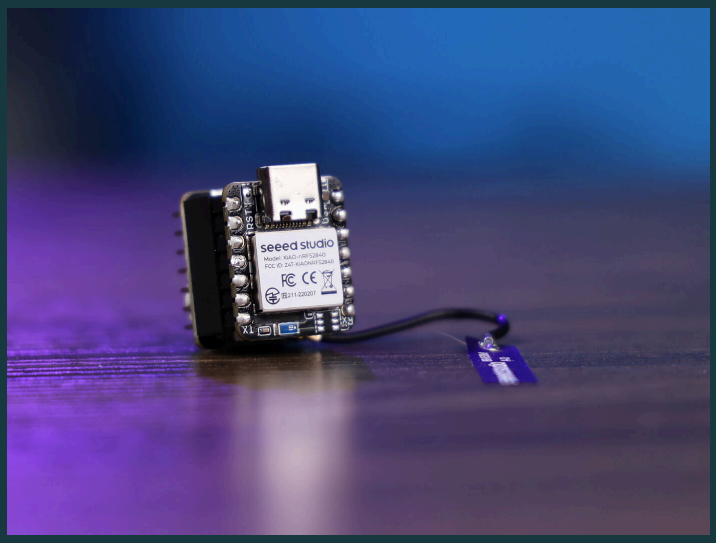
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INDUSTRIAL PRODUCT DATASHEET

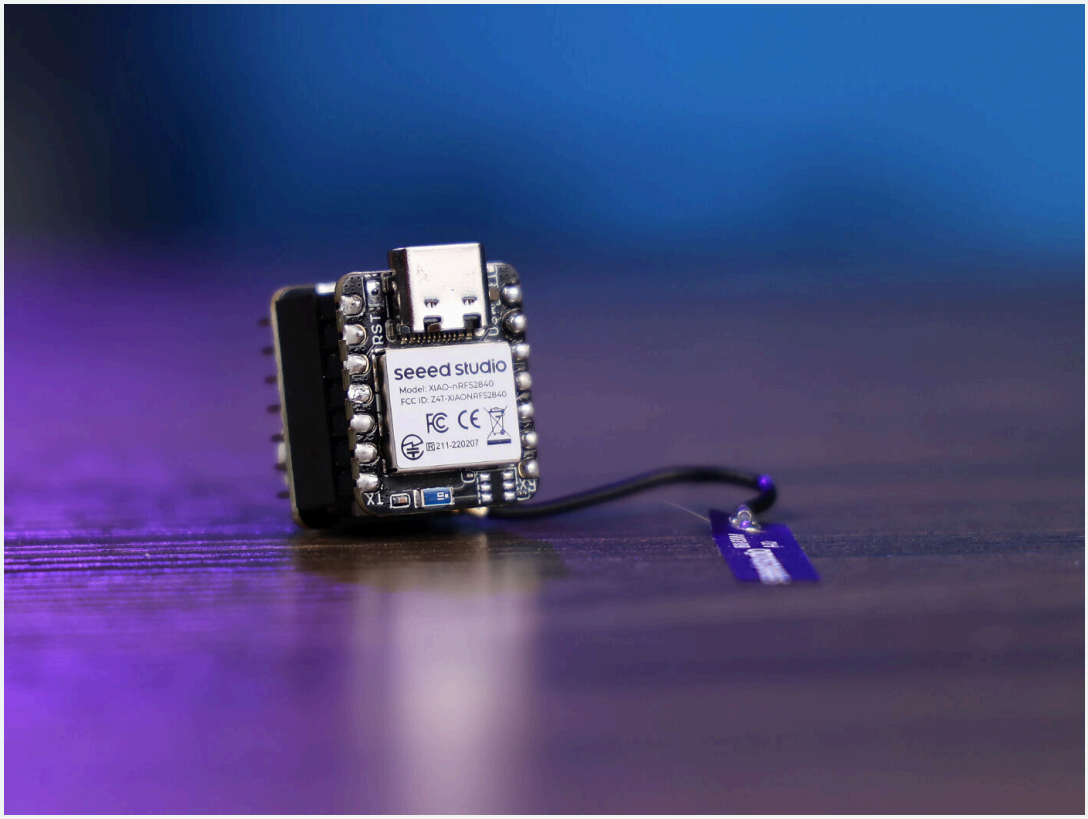
XIAO nRF52840 & Wio-SX1262 Kit for Meshtastic

Ultra-small dual-mode Bluetooth and LoRa kit for Meshtastic and LoRa/LoRaWAN applications, featuring Nordic nRF52840 and Semtech SX1262.

SKU	UPDATED	PRICE
102010710	2026-11-10 12:26:49	$13.49(Excl. VAT)



Overview



The XIAO nRF52840 & Wio-SX1262 Kit for Meshtastic integrates the Nordic nRF52840 microcontroller (64 MHz with FPU, Arduino/CircuitPython/Micropython support) and Semtech SX1262 LoRa transceiver (868/915 MHz) in an ultra-small 8mm × 22mm × 23mm form factor with integrated antenna and Bluetooth+LoRa dual-mode communication. It is suitable for Meshtastic nodes/routers and LoRa/LoRaWAN sensor applications, offering long-range connectivity and cross-domain interconnection.

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 **Powerful LoRa Performance**

Long-range LoRa on Semtech SX1262, supports 868/915 MHz bands.

03 **Dual-core communication**

It supports both Bluetooth and LoRa dual modes, enabling cross-domain interconnection.

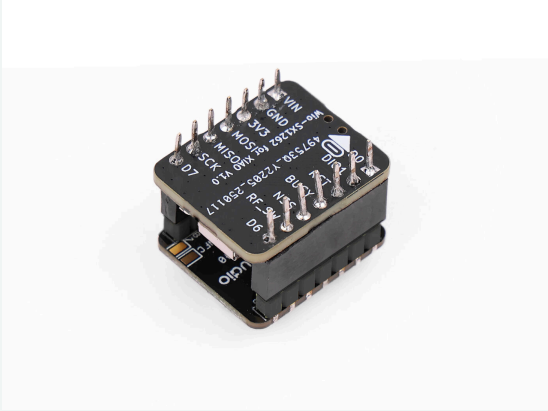
04 **With dimensions of only 8mm × 22mm × 23mm, it features an integrated antenna design.**

Product Gallery



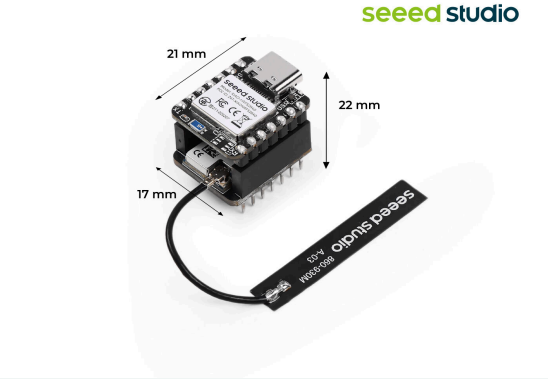




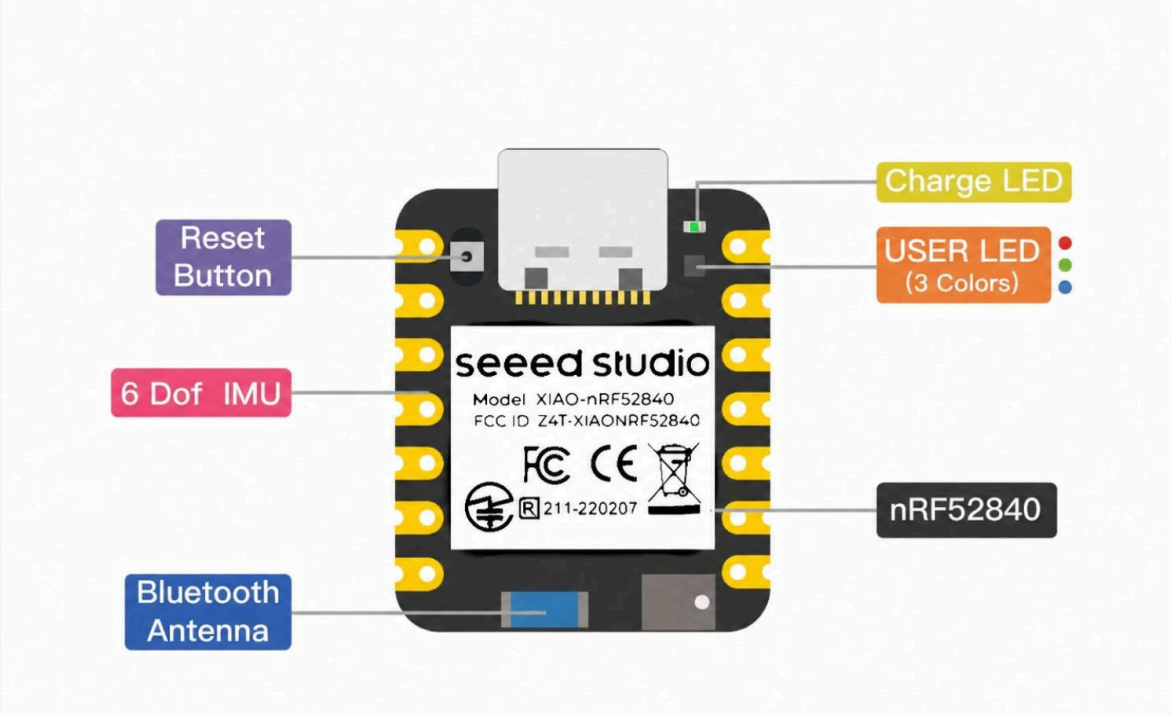


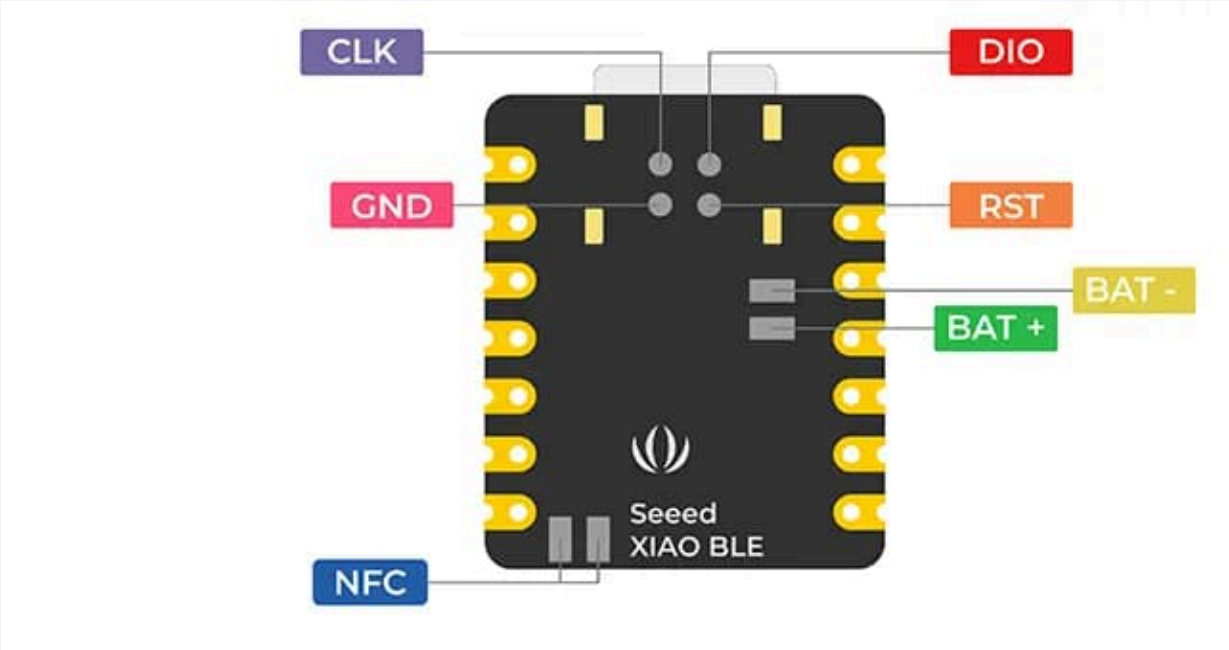


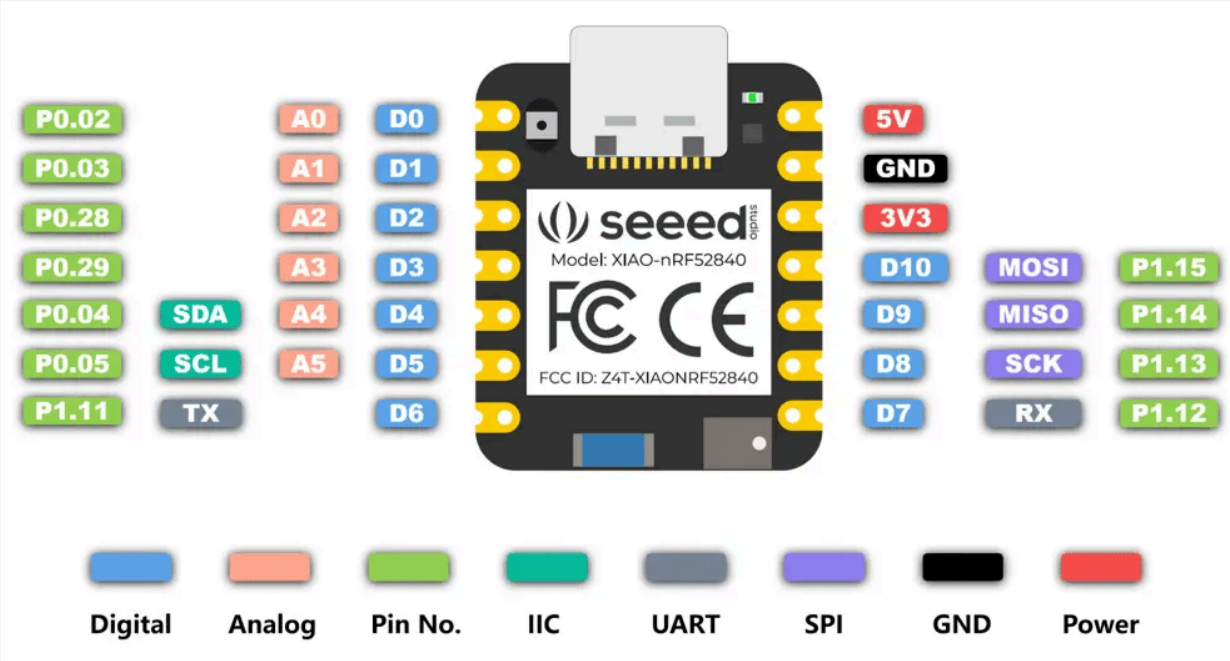


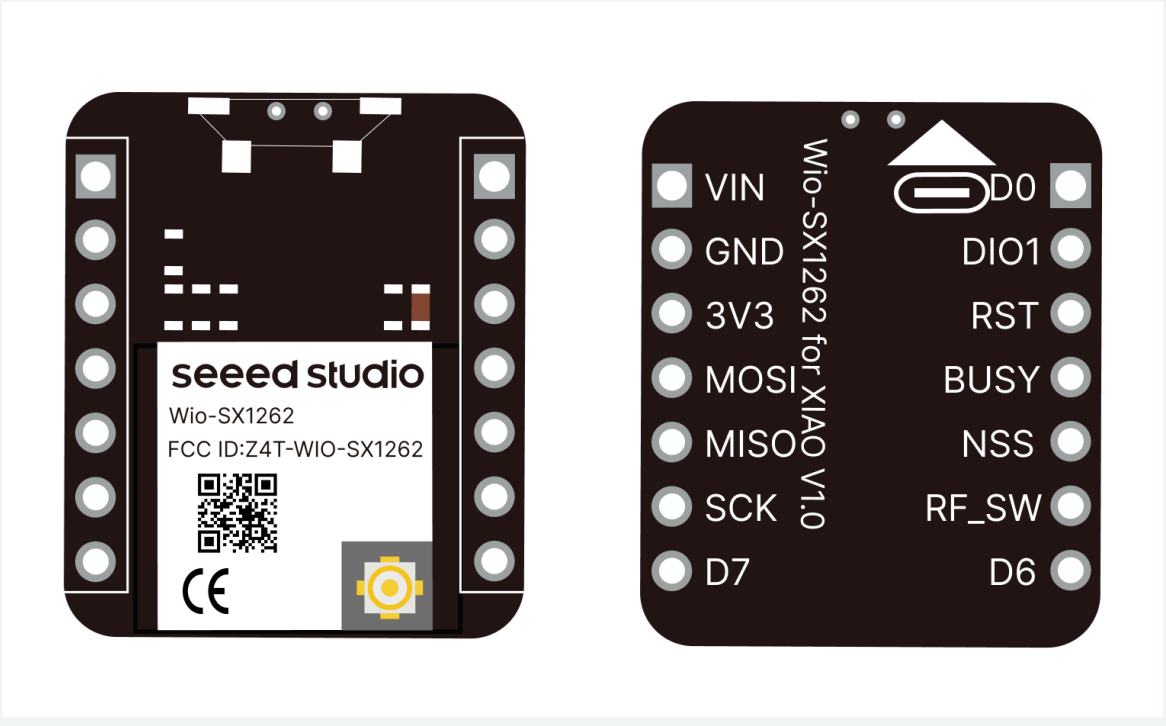

21 mm
22 mm
17 mm

Hardware Overview






P0.02
P0.03
P0.28
P0.29
P0.04
P0.05
P1.11
SDA
SCL
TX
A0
A1
A2
A3
A4
A5
D0
D1
D2
D3
D4
D5
D6
seeed
Model: XIAO-nRF52840
FCC ID: Z4T-XIAONRF52840
5V
GND
3V3
D10
D9
D8
D7
MOSI
MISO
SCK
RX
P1.15
P1.14
P1.13
P1.12
Digital
Analog
Pin No.
IIC
UART
SPI
GND
Power


seeed studio
Wio-SX1262
FCC ID:Z4T-WIO-SX1262
Wio-SX1262 for XIAO V1.0
VIN
GND
3V3
MOSI
MISO
SCK
D7
D0
DIO1
RST
BUSY
NSS
RF_SW
D6



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.

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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