

INDUSTRIAL PRODUCT DATASHEET

Wio-SX1262 LoRa Wireless Module without IPEX (Tape Reel), SX1262 embedded, supports LoRa&LoRaWAN on EU868 & US915

Wio-SX1262 LoRa Wireless Module without IPEX (Tape Reel) delivers SX1262-based LoRa/LoRaWAN connectivity for EU868/US915 with high performance, low power, compact SMT design, and certifications for environmental monitoring...

SKU

113991436

UPDATED

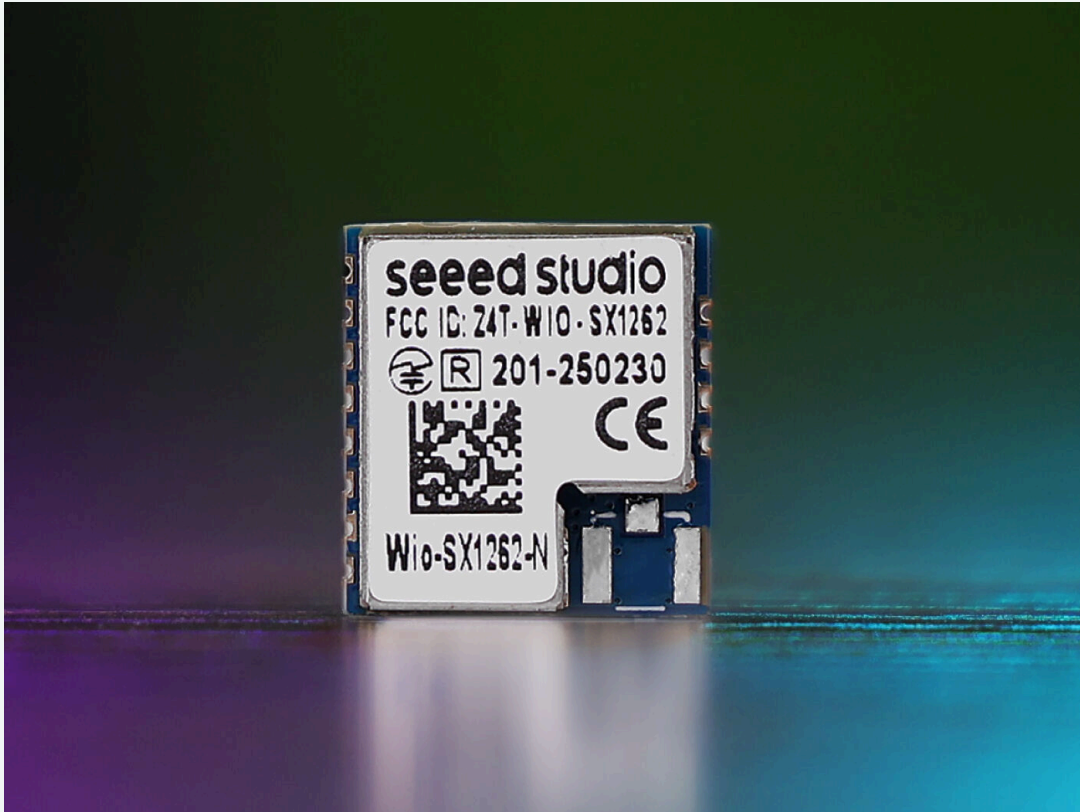
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PRICE

\$4.29(Excl. VAT)



Overview



The Wio-SX1262 LoRa Wireless Module without IPEX (Tape Reel) integrates SX1262 and supports LoRa & LoRaWAN on EU868 and US915, with SPI interface covering 862–930 MHz, up to 22 dBm transmit power, -136.73 dBm sensitivity for SF12/125 kHz BW, and 1.62 μ A sleep current in a 6 mm $\times$ 11 mm $\times$ 2.95 mm 12-pin SMT package; this variant has no IPEX antenna connector, routing the antenna from the PIN pins to an onboard antenna. It is FCC ID, CE, RoHS, and TELEC certified and is suited for applications such as solar-powered outdoor air quality monitoring, low-power snow depth sensing, stream runoff monitoring, and indoor air pollutant monitoring.

Key Features

Note: The Wio-1262-N module does not include an IPEX antenna connector. If your application requires an IPEX interface for external antenna compatibility, please refer to the [Wio-SX1262 Wireless Module SKU: 114993390](#).

- **High Performance:** The transmit power up to 22dBm @868/930MHz; -136.73dBm sensitivity for SF12 with 125KHz BW.
- **Wireless Connectivity:** SPI interface, supports 862~930MHz global LoRa&LoRaWAN frequency plan.
- **Small Size:** 6mm X 11mm * 2.95mm @12 pins SMT.
- **Low Power Consumption:** 1.62uA sleep current .
- **RF Interface:** SMT Pin.
- **FCC ID, CE, RoHS, TELEC Certified**

The Wio-SX1262 and Wio-E5 are both perfect choices for designing LoRa devices. Their main differences lie in whether you have a host MCU:

- If you already have an MCU, such as an nRF52840 or ESP32, and you just need to add LoRa functionality, you can choose the **Wio-SX1262**.
- the Wio-SX1262 series now includes the **Wio-SX1262-N** , which does not have an IPEX connector but instead uses SMT packaging to route the antenna from the PIN pins to an onboard antenna.
- If you need a single MCU to complete your design, then the [Wio-E5](#) is an excellent choice.

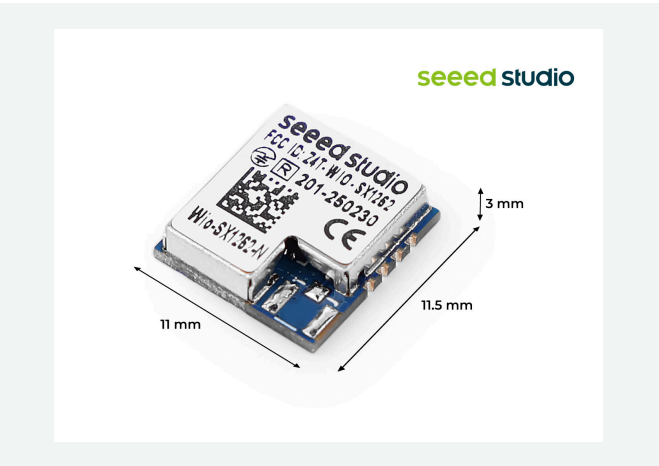
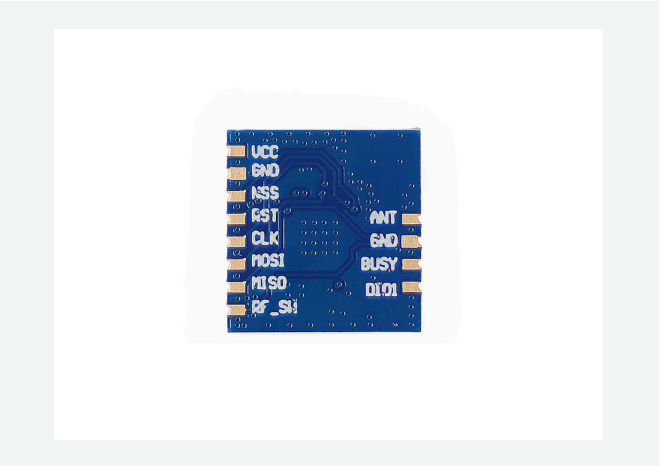
ODM & OEM

With over 10 years of ODM & OEM experience, our engineers and product experts are proficient in delivering customization and manufacturing services for hardware products. We are committed to assisting you at any moment and shortening your path from idea to product for emerging AIoT scenarios.

If you want to design in our Wio-E5/Wio-SX1262 Module, we provide a one-stop ODM and OEM service for quick customization and scale-up. Please contact iot@seeed.cc if you have a large quantity customization need.

Seeed Fusion PCBA Services

Product Gallery



Specification

Main Chip	SX1262
Size	11.6(W)11(L)2.95(H) mm
Package	12 pins, SMT

Frequency	supports 862-930MHz
Power Supply	3.3V @typical
Sleep Current	1.62 μ A
SX1262 Power Distribution Mode	DC-DC Mode
TCXO Supply Mode	By SX1262 DIO3
TCXO Supply Voltage	1.7~3.3 V
Maximum Operation Current (Transmitter)	125mA @22dBm in 862-930MHz typical
Maximum Operation Current (Receiver)	7.6mA @BW125kHz, 862-930MHz typical
Output Power	22dBm max @862-930MHz
Receiver Sensitivity	-136.73dBm @SF12, BW125kHz typical
Harmonics	$\leq$ -45dBm above 1GHz
Antenna	SMT pin
Interface	1 x SPI DIO1: Multi-purpose digital IO Busy: Busy signal indicator DIO2: Multi-purpose digital IO, internally connected to RF switch DIO3: TCXO voltage power supply configure through software
Working Temperature	-40°C ~ 85°C
Units per Reel	1000pcs

Hardware Overview



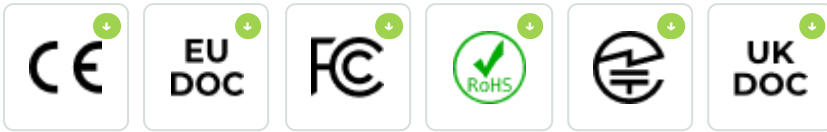
Applications

- **Solar-Powered Outdoor Air Quality Monitor:** Solar-Powered Outdoor Air Quality Monitor transmits data over LoRaWAN with the help of Seeed Fusion (<https://www.seeedstudio.com/blog/2021/12/15/solar-powered-outdoor-air-quality-monitor-transmits-data-over-lorawan-with-the-help-of-seeed-fusion/>)
- **Low-Power Snow Depth Sensor Monitoring for IoT Smart City Based On Wio-E5:** Low-Power Snow Depth Sensor Monitoring for IoT Smart City Based On Wio-E5 Applied in Norway (<https://www.seeedstudio.com/blog/2022/02/18/low-power-snow-depth-sensor-monitoring-for-iot-smart-city-based-on-lora-e5-applied-in-norway/>)
- **Stream Runoff Monitoring Sensors Using Wio-E5:** Former Ph.D Researcher At OSU Developed Stream Runoff Monitoring Sensors Using Wio-E5 to Measure The Temperature, Quality and Flow (<https://www.seeedstudio.com/blog/2022/03/04/former-ph-d-researcher-at-osu-developed-stream-runoff-monitoring-sensors-using-lora-e5-to-measure-the-temperature-quality-and-flow/>)
- **Monitoring Indoor Air Pollutants using Seeed Wio-E5 and Fusion PCB:** Monitoring Indoor Air Pollutants – The Silent Issue for Smart City IoT using Seeed Wio-E5 and Fusion PCB (<https://www.seeedstudio.com/blog/2022/04/27/monitoring-indoor-air-pollutants-the-silent-issue-for-smart-city-iot-using-seeed-lora-e5-and-fusion-pcba/>)
- **Wio-E5 & 038; ESP32 Powered WiLoBlino Device:** Voice Needed! Ready for a Wio-E5 & 038; ESP32 Powered WiLoBlino Device? (<https://www.seeedstudio.com/blog/2022/06/21/voice-needed-ready-for-a-lora-e5-esp32-powered-wiloblino-device/>)

Part List

Wio-SX1262-N Wireless Module (without IPEX)	x1
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Compliance & Logistics



HSCODE	8517799000
USHSCODE	8517620090
UPC	
EUHSCODE	8517180000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- <https://www.seeedstudio.com/Wio-SX1262-Wireless-Module-without-IPEX-Tape-Reel-p-6417.html>
- [Wio-SX1262 Module Datasheet](#)
- [Semtech SX1262 Chip Datasheet](#)
- [Wio-SX1262 Module Kicad Library](#)
- [Wio-SX1262 Module 3D file](#)

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