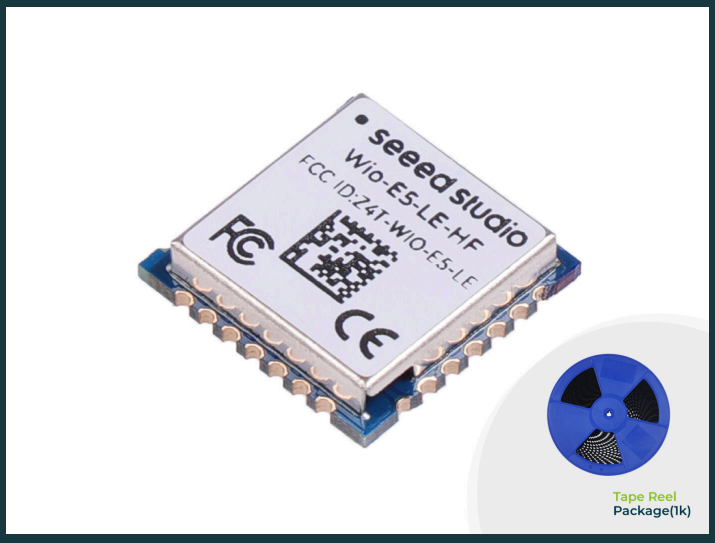
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Wio-E5-LE Wireless Module (Tape Reel) - STM32WLE5JC, ARM Cortex-M4 and SX126x embedded, supports LoRaWAN on EU868 & US915

Wio-E5-LE module has a single-coreSTM32WLE5JC chip, Cortex M4 MCU, and SX126X.

SKU	UPDATED	PRICE
114993121	2026-11-11 08:59:34	$6.49(Excl. VAT)



Overview



Wio-E5-LE module has a single-coreSTM32WLE5JC chip, Cortex M4 MCU, and SX126X. It uses 84% less power for transmission compared to the Wio-E5. The ultra-low power consumption of the Wio-E5-LE makes it very energy efficient, this power-saving design makes the Wio-E5-LE well-suited for applications needing minimal power usage.

Key Features

01 **Go from Module Selection to a Working Project**

02 **See Modules, Resources, and Real Projects →**

03 **Ultra-Low Power Consumption**

In transmit mode, the operating current is only 26 mA.

04 **High Performance**

The transmit power is 14dBm @868/915MHz; -136.5dBm sensitivity for SF12 with 125KHz BW

05 **Long-Distance Communication**

Benefit from a 158dB link budget to ensure a seamless connection over extended distances.

06 **Abundant peripherals**

Equipped with a variety of GPIO interfaces like UART, I2C, and ADC, this module offers great flexibility for developers looking to expand peripherals.

07 **Certified and Trusted**

Wio-E5-LE is FCC and CE-certified, guaranteeing compliance with regulations and standards.

08 **Easy to Use**

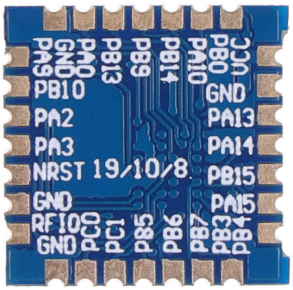
Has built-in AT command firmware and supports custom product development using an SDK.

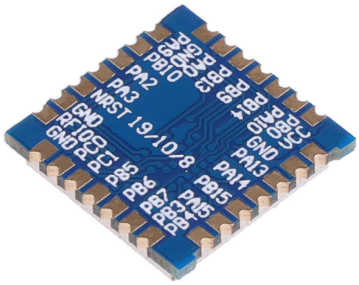
09 **Limited-Time Offer**

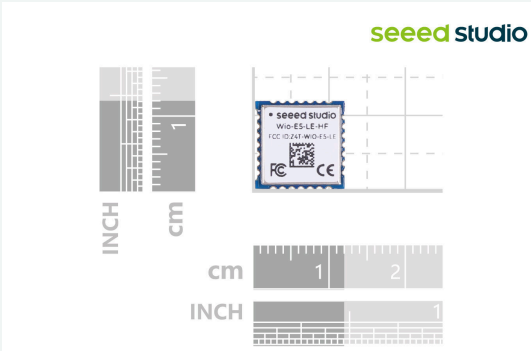
From July 1st to July 31st, get one SX1262 module for only $1 by entering coupon code SX1262329 at checkout. Strictly limit 1 unit per customer.

Product Gallery









Hardware Overview



	Wio-E5	Wio-E5-LE
High-Performance	The transmit power up to **22dBm**, ideal for long-range transmission. @868/915MHz	The transmit power is **14dBm**, for slightly shorter transmission distances than Wio-E5. @868/915MHz
Low Power Consumption	**111mA** in transmit mode @868MHz	**26mA** in transmit mode @868MHz, a reduction of **76%**.
Certification	FCC、CE、IC ID、TELEC、WPC、RCM	FCC、CE

Applications

- **Would like to learn more about the application scenarios of the LoRa-E5 module? Please check out the following real-world use cases:**
- **Solar-Powered Outdoor LoRaWAN Air Quality Monitor**
- **Low-Power Snow Depth Sensor Monitoring for IoT Smart City Based On Wio-E5 Applied in Norway**
- **Developed Stream Runoff Monitoring Sensors Using Wio-E5 to Measure The Temperature, Quality and Flow**
- **Smart City: Wio-E5-based Indoor Air Pollutant Detection Project**
- **Wio-E5 & ESP32 Powered WiLoBlIno**
- **Loko：The Tiniest GPS Tracker with Built-In Wio-E5 Module Can Track Any Wild Animals and Drones:** After designing your own long-range devices with this Wio-E5 module, you can get your designs verified quickly with Seeed Fusion PCB and PCBA services, which can help turn your designs into prototypes in a few days. When the design is verified, Seeed agile manufacturing services will help you scale up the prototypes into mass production, with services from Design for Manufacturing, and procuring raw materials, to mass production and global shipment, and many services in between.
- **Development Tools:** We also offer a range of development boards that make it easier for you to first verify your ideas and then use modules to build your own products. We have designed Grove Wio-E5, Wio-E5 mini Dev Board,Wio-E5 Dev Kit that you can choose according to your needs to speed up your project development.
- **ODM & OEM:** With decades of ODM & OEM experience, our engineers and product experts are proficient in delivering customization services for popular open-source hardware platforms – NVIDIA® Jetson™, Raspberry Pi ®, Beagleboard ®, and more. Use the Wio-E5 series module to create industrial-grade sensors or development boards for rapid AIoT implementation.
- **Feature product using Wio-E5**
- **Such as our SenseCAP S210x series products:** We're dedicated to supporting you and streamlining your idea-to-product journey. We are ready to bring your product concept to the market with Seeed Studio's industrial capabilities from design, manufacturing, testing, certification, global distribution, and marketplace. SenseCAP S210x series products are made based on this module, which makes good use of the ultra-low power consumption of this module and is deployed in many places, for more information, please contact iot@seeed.cc.

Resource Links

- https://www.seeedstudio.com/Wio-E5-LE-Wireless-Module-Tape-Reel-STM32WLE5JC-p-5752.html
- Wio-E5-LE Datasheet
- Wio-E5-LE AT Command Specification
- STM32WLE5JC Datasheet
- Wio-E5-LE FCC Certification -DTS
- Wio-E5-LE FCC Certification -DSS
- Wio-E5-LE Certification CE-VOC
- STM32Cube MCU Package for STM32WL series

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