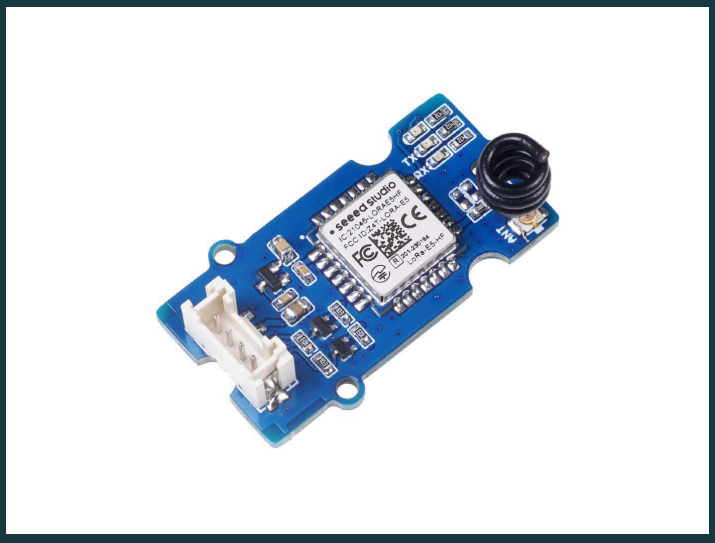
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INDUSTRIAL PRODUCT DATASHEET

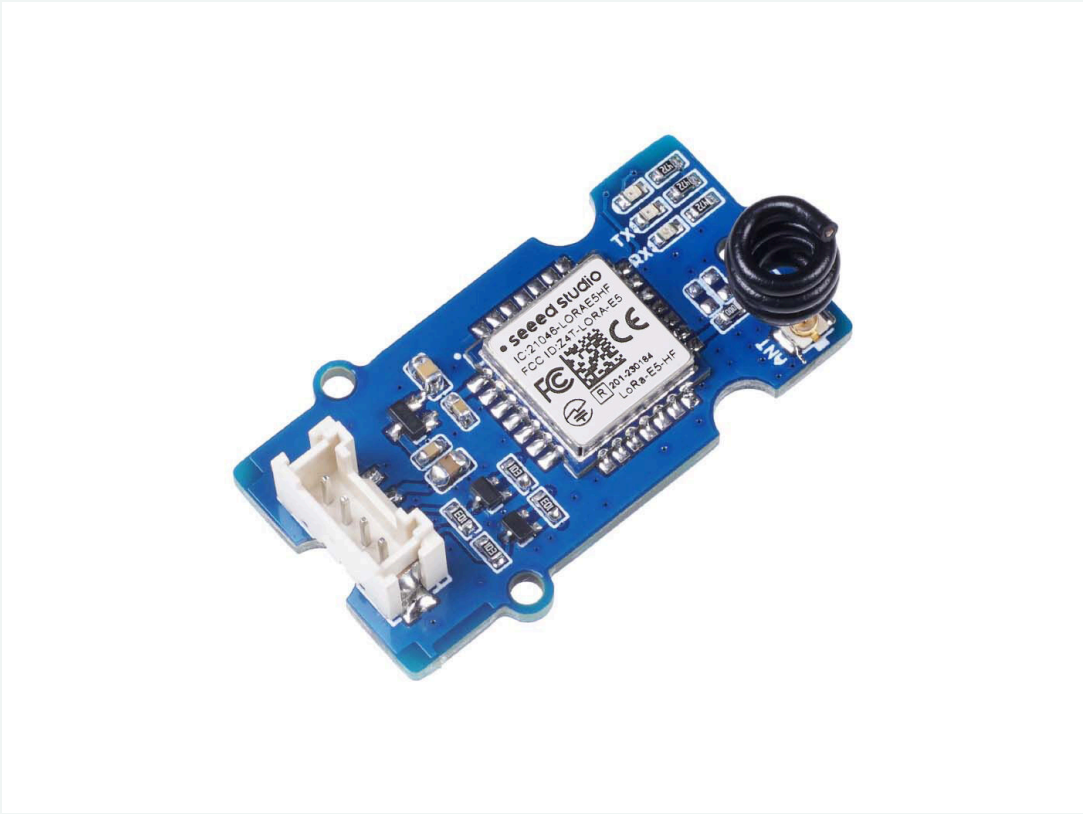
Grove-Wio-E5 Wireless Module - STM32WLE5JC, ARM Cortex-M4 and SX126x embedded, supports LoRaWAN on EU868 & US915

Grove-Wio-E5 Wireless Module: STM32WLE5JC-based LoRaWAN module with EU868/US915 support, Grove plug-and-play, and FCC/CE/Telec certification for smart city, environmental monitoring, and GPS tracking applications.

SKU	UPDATED	PRICE
113020091	2026-11-03 03:30:52	$16.90(Excl. VAT)



Overview



The Grove-Wio-E5 Wireless Module is built on the STM32WLE5JC with embedded LoRaWAN support for EU868 and US915, delivering excellent performance up to 48 MHz and plug-and-play use via the Grove Unified Socket. It offers great flexibility through rich GPIO interfaces including UART, I2C, and ADC, and is FCC, CE, and Telec certified for global Long Range connectivity.

Key Features

01 **Excellent performance**

With the support of STM32WLE5JC. It has an adaptive real-time accelerator and allows 0-wait-state execution from Flash memory, frequency of up to 48 MHz.

02 **Plug and Play**

With the Grove Unified Socket, it can easily be utilized in a variety of applications.

03 **Wireless Connectivity**

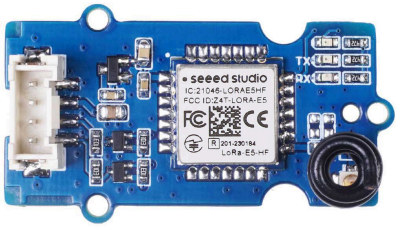
Embedded Long Range protocol, AT command, support global Long Range frequency plan.

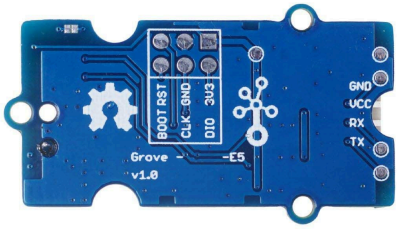
04 **Great Flexibility**

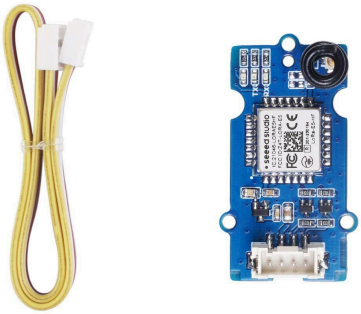
For users who want to develop software on the MCU of the module, other GPIOs of the MCU can be easily manipulated, including UART, I2C, ADC, etc. These rich GPIO interfaces are useful for users who need to expand peripherals.

05 **FCC, CE, Telec Certified**

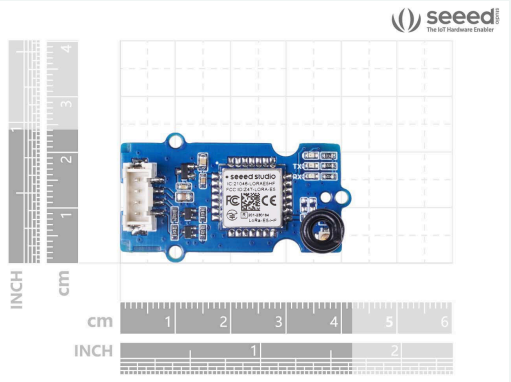
Product Gallery











Applications

- **Solar-Powered Outdoor LoRaWAN Air Quality Monitor**
- **Low-Power Snow Depth Sensor Monitoring for IoT Smart City Based On Wio-E5**
- **Developed Stream Runoff Monitoring Sensors Using Wio-E5**
- **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**

Resource Links

- https://www.seeedstudio.com/Grove-LoRa-E5-STM32WLE5JC-p-4867.html
- Grove Wio-E5 v1.0.brd
- Grove Wio-E5 v1.0.pdf
- Grove Wio-E5 v1.0.sch
- Wio-E5 datasheet and specifications
- Wio-E5 AT Command Specification
- STM32WLE5JC Datasheet
- Wio-E5-HF Certification CE-VOC-RED
- Wio-E5-HF FCC Certification -DSS
- Wio-E5-HF FCC Certification -DTS
- Wio-E5-HF TELEC Certification
- Wio-E5-HF IC Certification
- STM32Cube MCU Package for STM32WL series

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