

INDUSTRIAL PRODUCT DATASHEET

Wio Tracker 1110 Dev Board- the Tracker Prototype for Indoor and Outdoor Positioning

The Wio Tracker 1110 Dev Board is a compact, Arduino-compatible LoRa-based tracking development platform with LoRa®, GNSS, Bluetooth, and Wi-Fi Sniffer connectivity plus onboard environmental and motion sensors.

SKU

114993186

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PRICE

\$29.90(Excl. VAT)



Overview



The Wio Tracker 1110 Dev Board is a user-friendly LoRa-based tracking development platform based on the Wio-WM1110 Wireless Module, integrating Semtech's LR1110 LoRa® transceiver and a multi-purpose radio front-end for geolocation. Powered by Nordic nRF52840 and Semtech LR1110, it offers connectivity including LoRa®, GNSS (GPS/BeiDou), Bluetooth, and Wi-Fi Sniffer, plus onboard temperature/humidity sensors and a 3-axis accelerometer, with support for 300+ Sseeed Grove Sensors, Arduino IDE, and LoRaWAN® protocol stack.

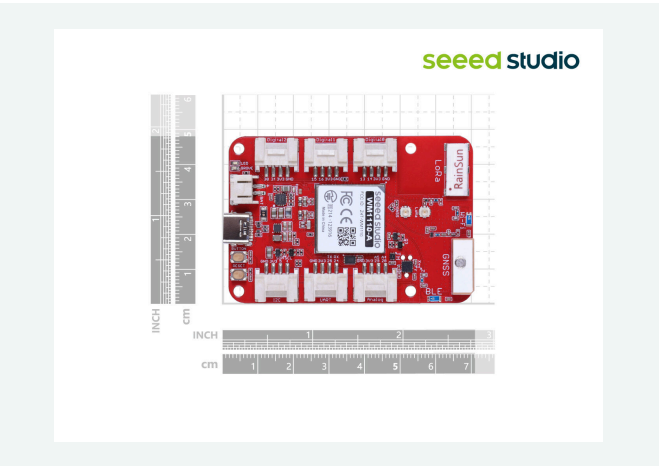
Key Features

The Wio Tracker 1110 Dev Board is based on **Wio-WM1110 Wireless Module** and integrates Semtech's **LR1110** LoRa® transceiver and a multi-purpose radio front-end for geolocation, it's a user-friendly, LoRa-based tracking development platform.

With its compact size and rich Grove interfaces, the Wio Tracker 1110 Dev Board is conveniently equipped with onboard antennas for easy deployment. It supports the Arduino development environment and LoRaWAN® protocol stack, making it ideal for tracking-related IoT projects.

- Powered by **Nordic nRF52840 and Semtech LR1110**
- **Offers multiple connectivity options including:** LoRa®, GNSS(GPS/BeiDou), Bluetooth, Wi-Fi Sniffer
- **Supports over 300+ Seeed Grove Sensors:** making it highly adaptable for different tracking and sensing requirements.
- **Onboard temperature sensor, humidity sensor, and a 3-axis accelerometer:** capturing a wide range of environmental and motion data
- **Fully Open Source Platform:** Leverage the extensive LR1110 and nRF52840 open-source ecosystem for infinite application possibilities.
- **Arduino IDE compatibility:** allowing ease of programming and a familiar environment for developers.

Product Gallery



Specification

LoRaWAN® Protocol	V1.0.4
Frequency Plan	863~928MHz

Sensitivity	-125dBm @125K/SF7 -141dBm @125K/SF12
Output Power	20dBm max @LoRa®
Positioning Technology	GNSS(GPS/BeiDou), WiFi Sniffer
Range	2~10km (Depends on antenna and environment)

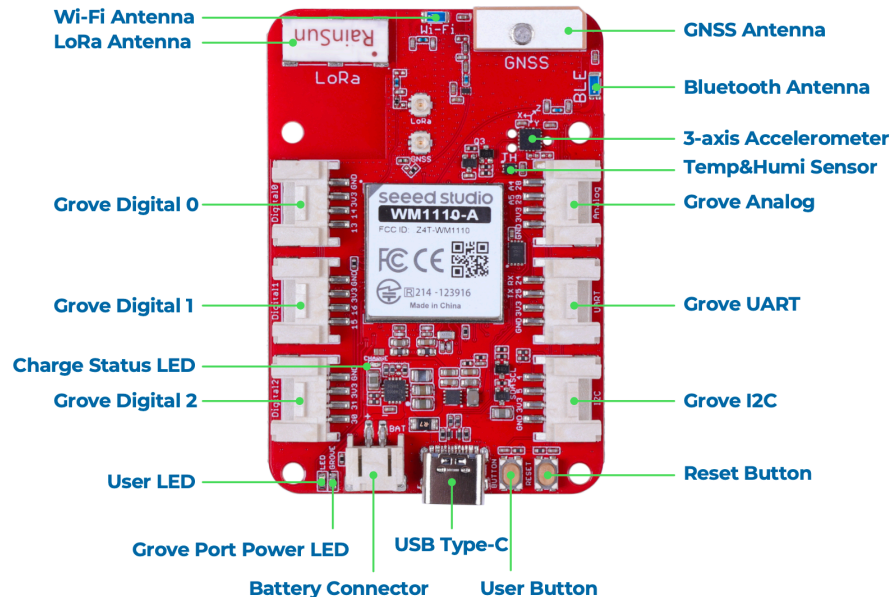
Bluetooth	Bluetooth 5.3
Flash	1MB
RAM	256KB
Protocol	Bluetooth LE, Bluetooth mesh, Thread, Zigbee, 802.15.4, ANT and 2.4 GHz proprietary stacks
Output Power	6dBm max @Bluetooth

Voltage - supply	5V (USB 2.0 Type-C)	
	Battery Connector	3.7V
Interface	RFIO	GNSS Antenna Connector* 1 LoRa Antenna Connector* 1
	USB type-C	* 1
	Grove Interface	ADC* 1 I2C* 1 UART* 1 Digital* 3
Button	USER	Configurable button
	RESET	Reset
Exterior FLASH Memory	4M	

TH Sensor (SHT41)		
	Range	Accuracy
Temperature	-40~125°C	± 0.2°C
Humidity	0~100%RH	±1.8%RH

3-Axis Accelerometer(LIS3DHTR)		
Range	±2g, 4g, 8g, 16g	
Bandwidth	0.5Hz ~ 625Hz	
Sensitivity (LSB/g)	1000 (±2g) ~ 83 (±16g)	

Hardware Overview



Part List

Wio Tracker 1110 Dev Board	x1
Plastic Packing Box	x1

Compliance & Logistics

HSCODE	8517180050
USHSCODE	8517620010
UPC	
EUHSCODE	8543709099
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Wio-Tracker-1110-Dev-Board-p-5799.html>
- [Wio Tracker 1110 Dev board v1.0_SCH.pdf](#)
- [Wio-WM1110_Module_Datasheet_V1.3](#)
- [Semtech LR1110 Datasheet](#)
- [Nordic nRF52840 Datasheet](#)
- [GitHub - Seeed-Studio/Adafruit_nRF52_Arduino](#)
- [Wio Tracker 1110 Dev Board EAGLE Library](#)

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