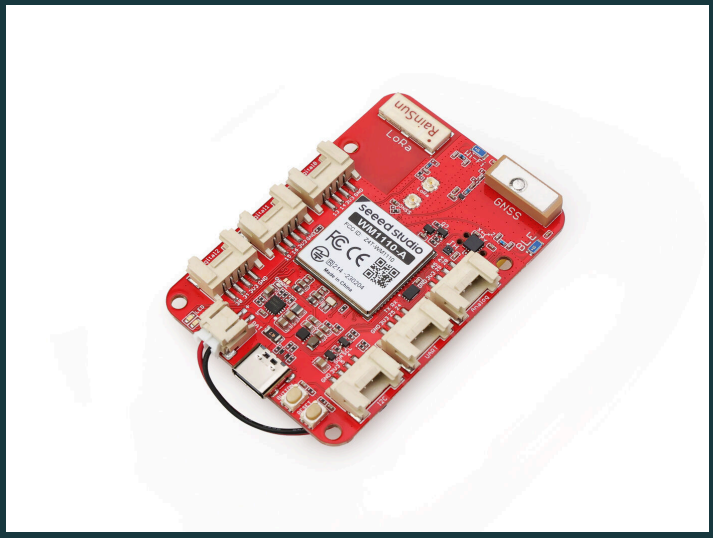
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Wio Tracker 1110 Dev Board for Meshtastic

Open-source Meshtastic dev board with onboard environmental and motion sensors for asset tracking, outdoor communication, and environmental monitoring.

SKU	UPDATED	PRICE
114993370	2026-09-21 09:59:30	$31.90(Excl. VAT)



Overview



The Wio Tracker 1110 Dev Board for Meshtastic supports Meshtastic and over 300 Seeed Grove sensors, with onboard temperature, humidity, and three-axis accelerometer sensors. It is a fully open-source platform leveraging the LR1110 and nRF52840 ecosystem for applications such as asset tracking, outdoor adventure communication, and environmental monitoring.

Key Features

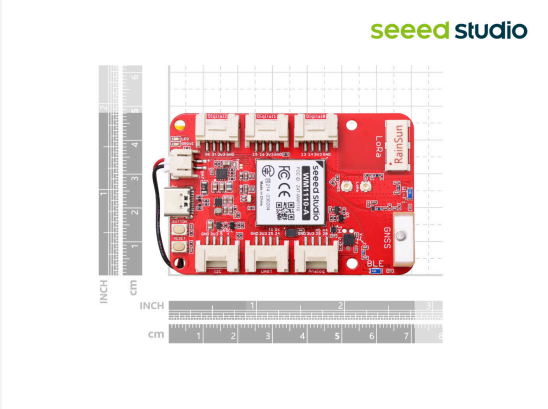
- **Supports Meshtastic**.
- **Supports over 300 Seeed Grove sensors**, making it highly adaptable to various tracking and sensing requirements.
- **Onboard temperature sensor, humidity sensor, and three-axis accelerometer** to capture diverse environmental and motion data.
- **A fully open-source platform** leveraging the extensive LR1110 and nRF52840 open-source ecosystem for limitless application possibilities.

Product Gallery









Specification

General		
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* 1I2C* 1UART* 1 Digital*3
Button	USER	Configurable button
	RESET	Reset
Exterior FLASH Memory	4M	
LoRa® and Positioning with Semtech LR1110 (This Kit Only Use the LoRa® RF transceiver)		
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 (Nordic nRF52840)		
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	
Onboard Sensors - TH Sensor (SHT41)		
	Range	Accuracy
Temperature	-40~125°C	± 0.2°C
Humidity	0~100%RH	±1.8%RH
Onboard Sensors - 3-Axis Accelerometer(Not Used)		
Range	±2g, 4g, 8g, 16g	
Bandwidth	0.5Hz ~ 625Hz	
Sensitivity (LSB/g)	1000 (±2g) ~ 83 (±16g)	

Applications

- **Asset Tracking:** Track the movement and location of your assets and monitor environmental conditions in real-time where the asset is located for better management.
- **Outdoor Adventure:** Use the kit to build a Meshtastic device for off-grid communication with your hiking or camping group. The GPS can help track locations, while temperature and humidity sensors can provide real-time environmental data to ensure safety.
- **Environmental Monitoring:** Collect and transmit environmental data. Deploy the device in remote areas to monitor and log temperature and humidity over time, contributing to local weather data collection. Use the device to track and monitor environmental conditions in wildlife habitats, aiding in research and conservation efforts.

Part List

Wio Tracker 1110 Dev Board for Meshtastic	x1
Lithium Battery	x1
3M Round Stickers	x1

Compliance & Logistics

HSCODE	8543709990
USHSCODE	8543709860
UPC	
EUHSCODE	8543709099
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Wio-Tracker-1110-Dev-Board-for-Meshtastic-p-5914.html
- Wio Tracker 1110 Dev board v1.0_SCH.pdf
- Wio-WM1110_Module_Datasheet_V1.3
- Semtech LR1110 Datasheet
- nRF52840 - Bluetooth 5.3 SoC - nordicsemi.com
- GitHub - Meshtastic Firmware
- Wio Tracker 1110 Dev Board EAGLE Library

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