

INDUSTRIAL PRODUCT DATASHEET

Wio Tracker L1 Pro

Wio Tracker L1 Pro: durable Meshtastic-ready tracker with triple power supply and high expandability for outdoor, mobile, and industrial IoT applications.

SKU	UPDATED	PRICE
114993649	2026-08-14 08:12:41	\$47.90(Excl. VAT)



Overview



The Wio Tracker L1 Pro is a ready-to-use tracking device pre-flashed with Meshtastic firmware, featuring a durable PC+ABS injection-molded enclosure in two color options. It offers triple power supply with a built-in 2000 mAh battery, Type-C fast charging, and solar input, along with high expandability through the Grove Ecosystem, PTH headers, and an SWD debugging interface.

Key Features

Note:

- From China warehouse to the United States, choose "US Direct Group Shipping" to enjoy duty-free !
- **US Warehouse:** Enjoy FREE UNIUNI shipping on orders under \$50! (Excludes XIAO & Raspberry Pi series)
- Enjoy an automatic 10% off when you purchase any two or more devices from T1000-E (SKU : [114993369](#))、Wio Tracker L1 series (SKUs:[114993648](#), [114993649](#), [114993653](#), [114993654](#)) and Solar Node series (SKUs: [114993633](#), [114993643](#)).
- The Wio Tracker L1 Series is available in four versions—choose the one that best fits your needs.
- **Upgraded Enclosure**

The Wio Tracker L1 Pro now features a **PC+ABS injection-molded enclosure**, offering better durability and consistency than traditional 3D-printed nylon housings

To match different preferences and setups, it is also available in **two color options**.

Purchase links for the two color versions are provided below.

Orange-Case

Blue-Case

- **Pre-flashed with Meshtastic firmware**

Ready to use out of the box with pre-installed Meshtastic firmware for seamless setup.

- **Triple Power Supply Options**

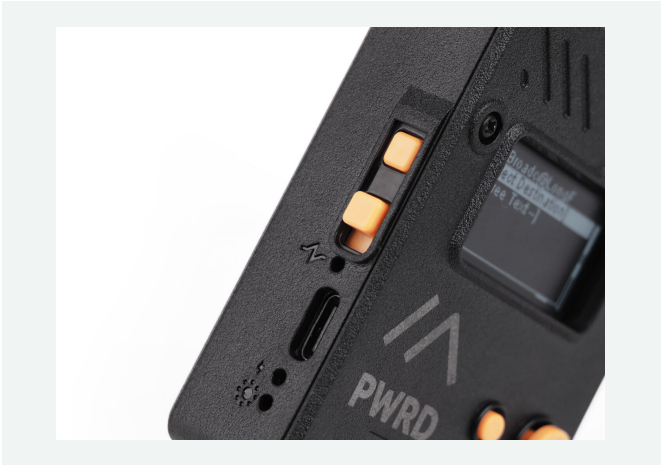
Equipped with a built-in 2000mAh battery, Type-C fast charging, and solar input support, enabling flexible deployment in diverse environments—perfect for outdoor and mobile use.

- **High Expandability**

Fully compatible with the Grove Ecosystem (The list of [supported sensors](#) is provided below.), and includes PTH headers and an SWD debugging interface for custom hardware expansion and advanced development.

Product Gallery

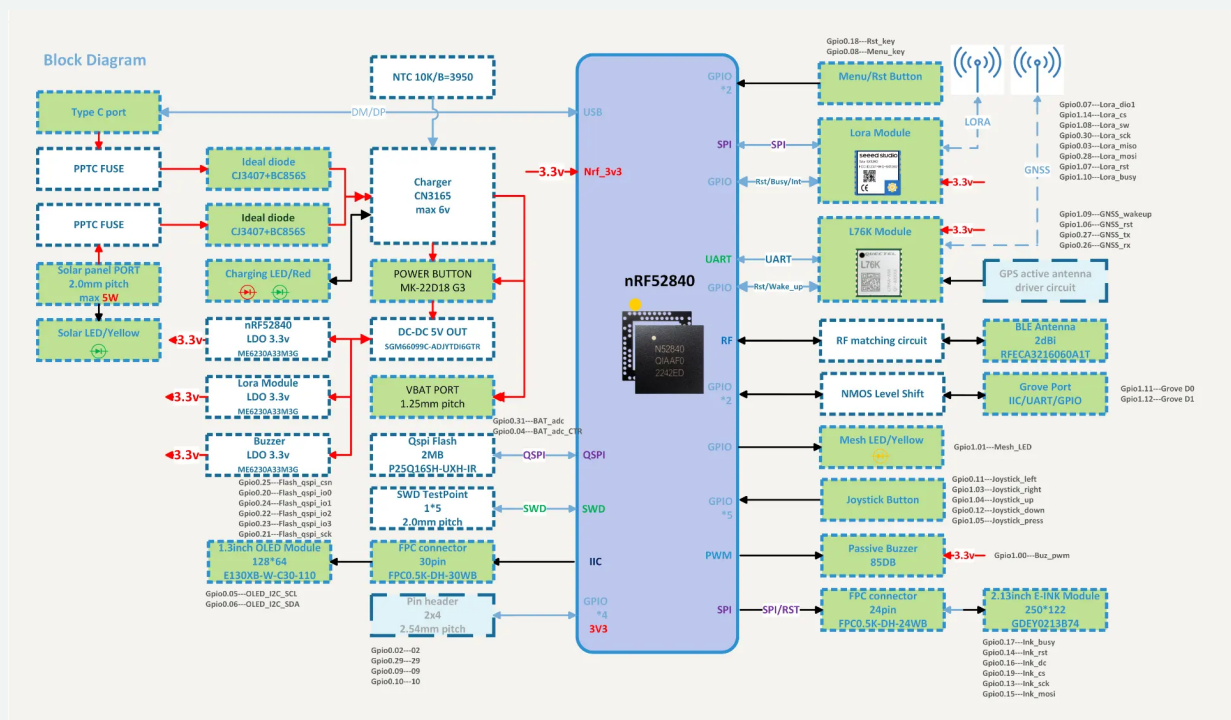
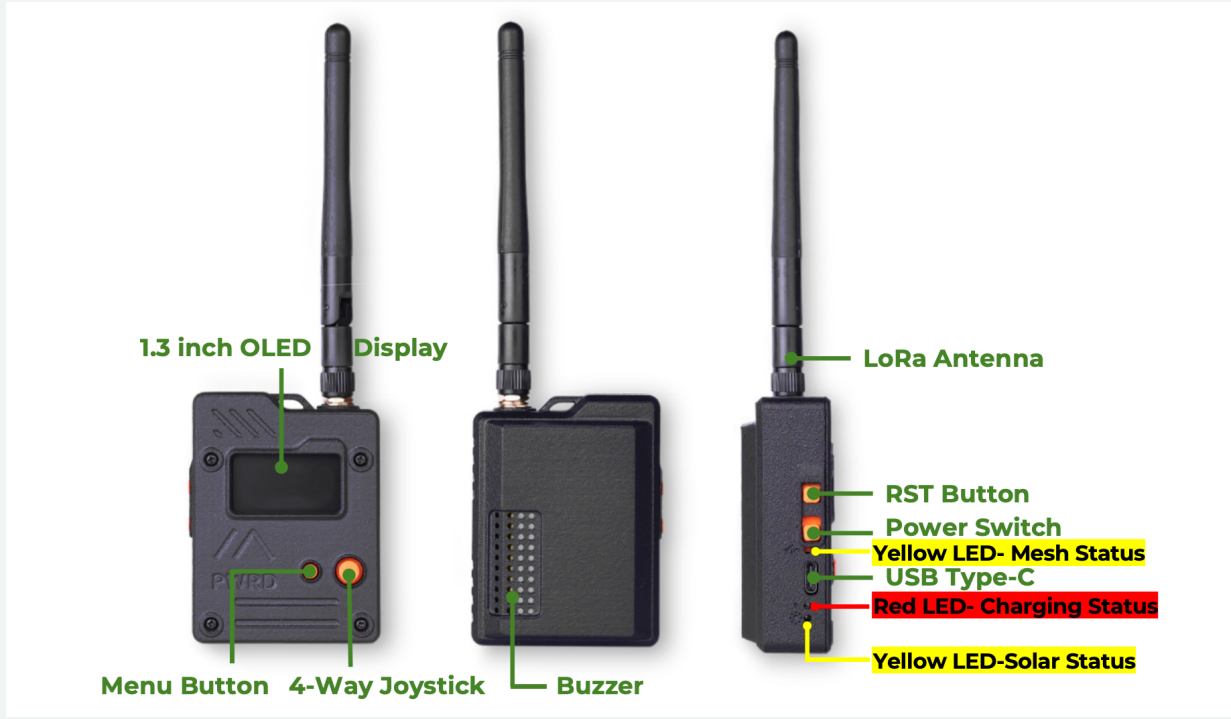




Specification

Processor	Nordic nRF52840ARM® Cortex®-M4 with FPU runs up to 64 MHz
On-chip Memory	1 MB flash and 256 kB RAM
Wireless	LoRa: Based on Wio-SX1262 , supports 862-930MHz
	Bluetooth 5.0
GPS	L76K(GPS,BeiDou,GLONASS,QZSS)
OLED Display	Size: 1.3 inch
	Resolution: 128*64 pixels
	Active Area(mm): L34.5*W23.0*H1.47
Power	Type-C: 5v---1A
	Solar energy interface(2.0mm 2p):5V---1A
	Battery interface(1.0mm 2p JST): 3.7v---1A
Certification	FCC, CE, RoHS

Hardware Overview





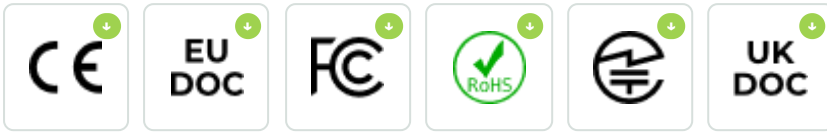
Applications

- **Smart Retail:** Enhance customer experience and optimize operations with AI-powered vision analytics.
- **Industrial Automation:** Enable predictive maintenance and machine vision for defect detection on production lines.
- **Smart City:** Deploy intelligent traffic monitoring, public safety, and infrastructure management solutions.
- **Environmental Monitoring:** Collect and analyze sensor data for air quality, water quality, and weather conditions.
- **Smart Agriculture:** Monitor crop health, automate irrigation, and track livestock using IoT sensors and AI.
- **Healthcare:** Support telemedicine, patient monitoring, and medical imaging edge inference.
- **Education:** Provide hands-on learning platforms for AI, IoT, and embedded system development.
- **Smart Home:** Build home automation and security systems with local AI processing and device connectivity.

Part List

Wio Tracker L1 Board with 1.3 inch OLED Display, 3D-Printed Enclosure and battery	x1
LoRa Antenna	x1

Compliance & Logistics



HSCODE	8526919090
USHSCODE	8526910040
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-Tracker-L1-Pro-p-6454.html>
- (V1) Wio Tracker L1 Pro 3D-Shell Reference Document
- (V2 New Four-way Joystick) Wio Tracker L1 Pro 3D-Shell Reference Document
- Hardware Schematic Diagram
- Seeed Wio Tracker L1 Power Consumption Test and Battery Life Calculation

Seeed Technology Co.,Ltd.

9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676

Web: www.seeed.cc

Shop: www.seeedstudio.com