

INDUSTRIAL PRODUCT DATASHEET

# Wio Tracker L1 Pro

The Wio Tracker L1 Pro is a ready-to-use Meshtastic device with a rugged enclosure, versatile power options, and extensive expansion capabilities.

SKU

114993649

UPDATED

2026-04-22 01:23:18



# Overview



The Wio Tracker L1 Pro features a durable PC+ABS injection-molded enclosure and comes pre-flashed with Meshtastic firmware for out-of-the-box use. It offers triple power supply options including a built-in 2000 mAh battery, Type-C fast charging, and solar input, along with high expandability through Grove Ecosystem compatibility, PTH headers, and an SWD debugging interface.

# Key Features

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## 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**

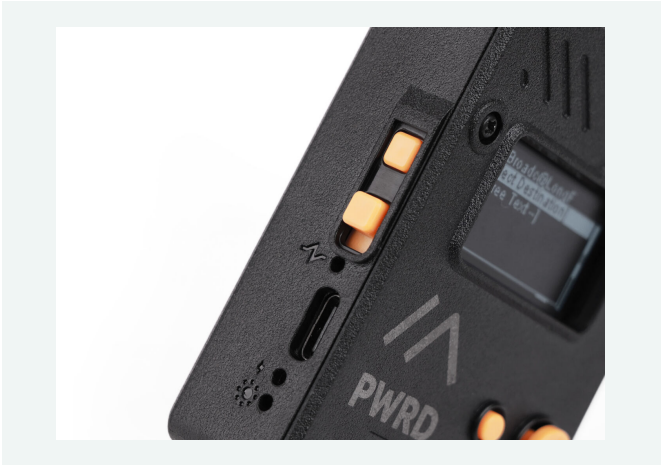
Equipped with a built-in 2000mAh battery, Type-C fast charging, and solar input support, enabling flexible deployment in diverse environments—perfect for outdoor and mobile use.

- **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

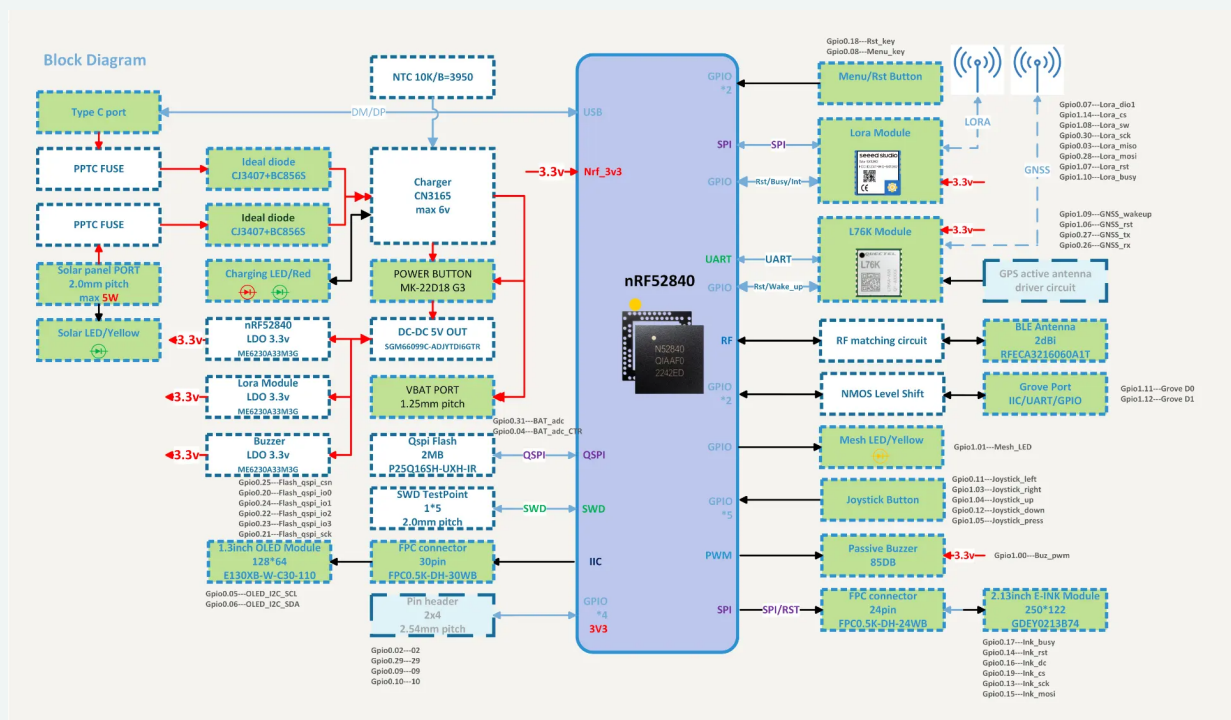
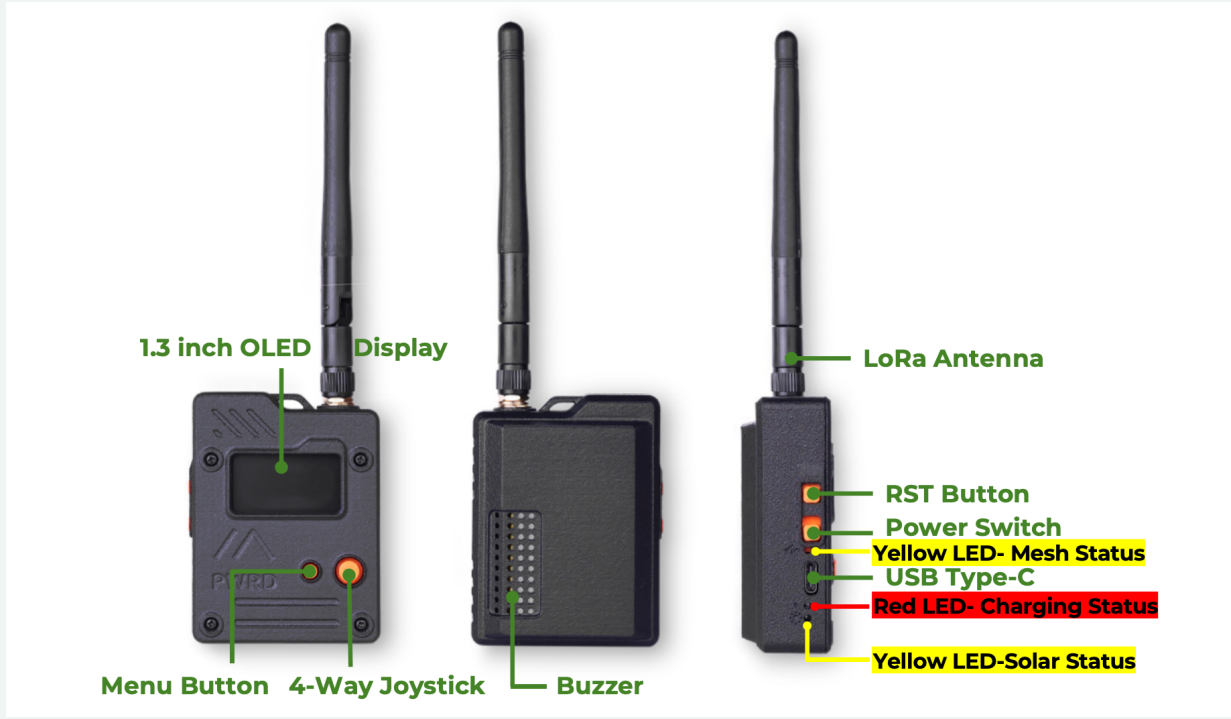




Specification

|                |                                                                 |
|----------------|-----------------------------------------------------------------|
| 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 <a href="#">Wio-SX1262</a> , 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

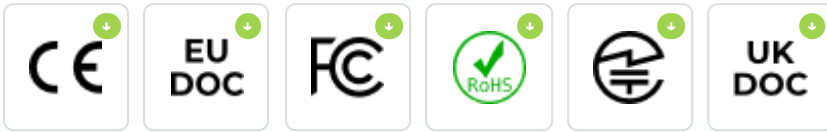




Part List

|                                                                                   |    |
|-----------------------------------------------------------------------------------|----|
| 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