

INDUSTRIAL PRODUCT DATASHEET

Wio Tracker L1 Lite

The Wio Tracker L1 Lite comes pre-flashed with Meshtastic and supports Type-C, solar, and Li-ion power for flexible outdoor and mobile applications.

SKU

114993653

UPDATED

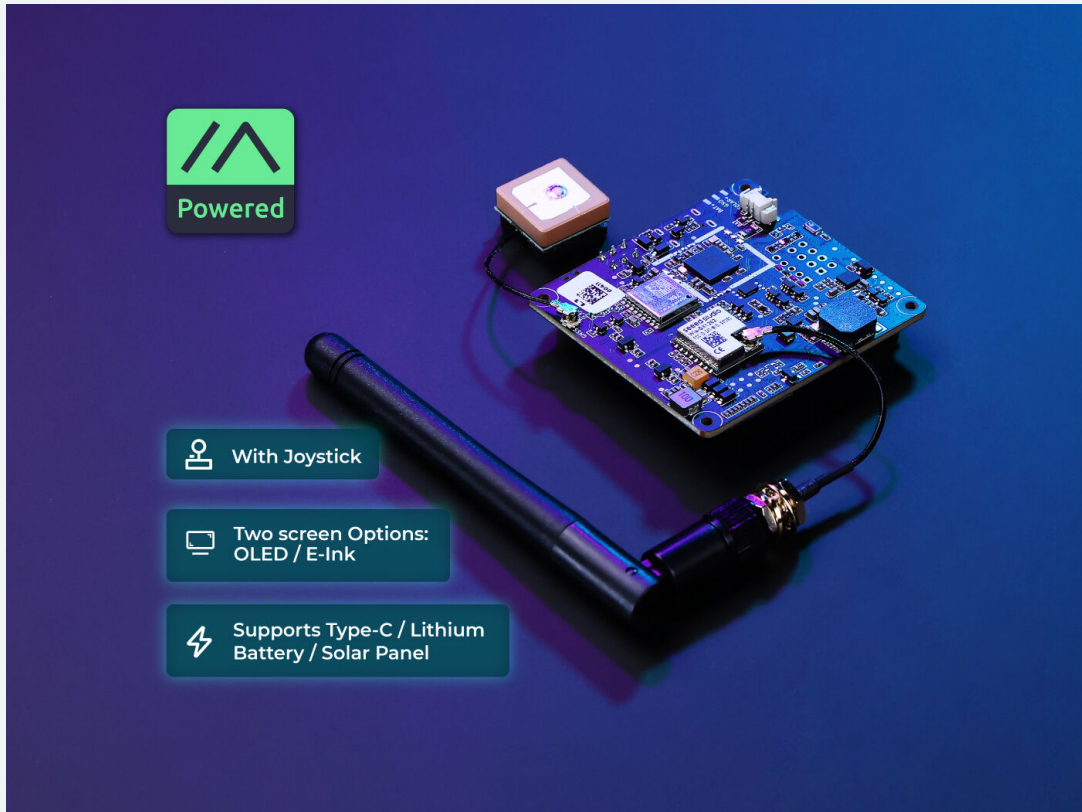
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PRICE

\$27.90(Excl. VAT)



Overview



The Wio Tracker L1 Lite is a ready-to-use tracking device pre-flashed with Meshtastic firmware, featuring triple power supply options (Type-C, solar, and Li-ion) for versatile deployment. It supports optional 1.3-inch OLED and 2.13-inch E-Ink screens, and offers high expandability via the Grove Ecosystem, PTH headers, and an SWD debugging interface.

Key Features

Note:

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.

Sunset-Orange-Case

Aqua-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**

Supports Type-C fast charging, solar input, and Li-ion battery power for flexible deployment in various environments—ideal for outdoor and mobile applications.

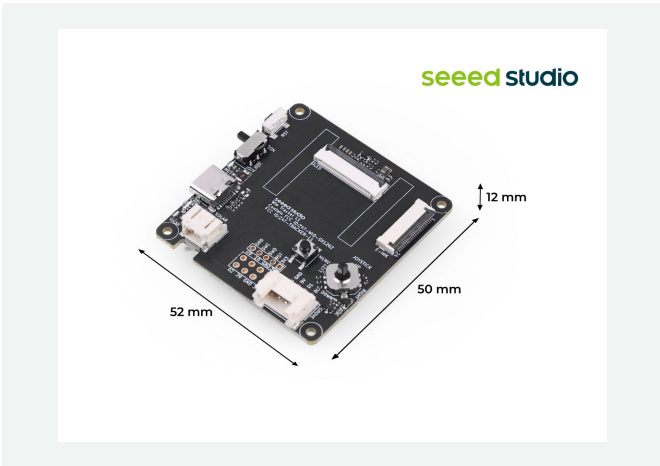
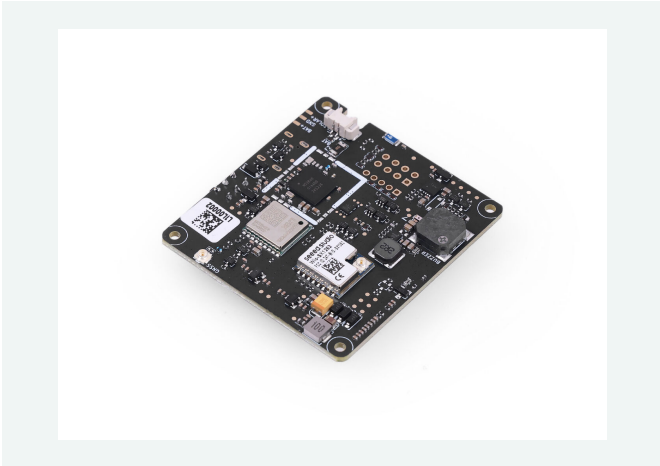
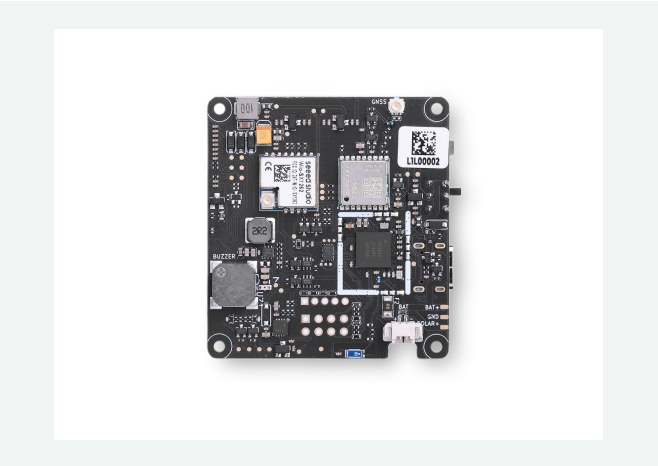
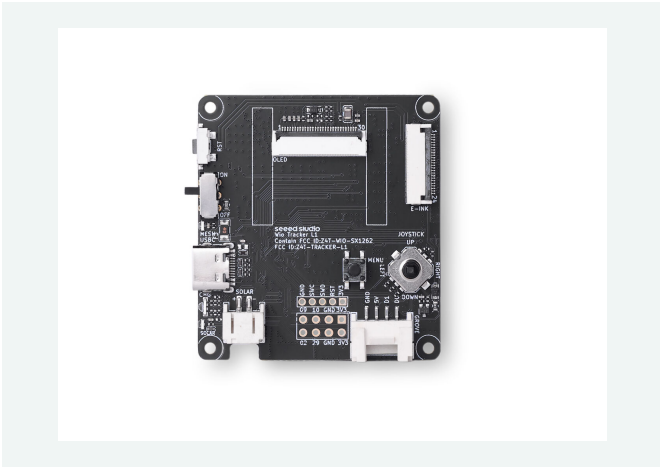
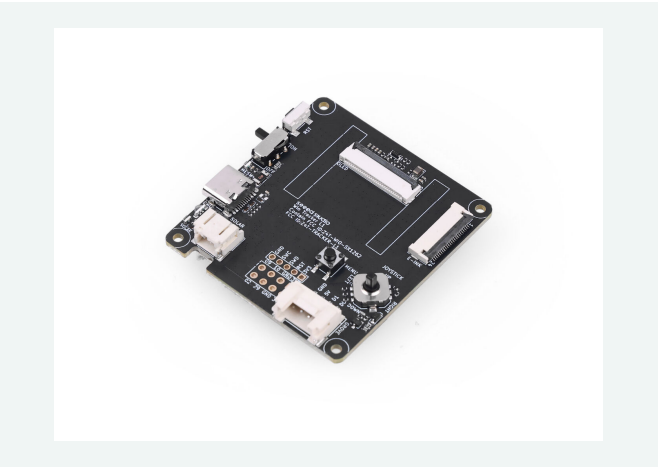
- **Flexible Display Support**

Optional 1.3-inch OLED and 2.13-inch E-Ink screens, offering versatile display options for different power consumption and visual feedback needs.

- **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

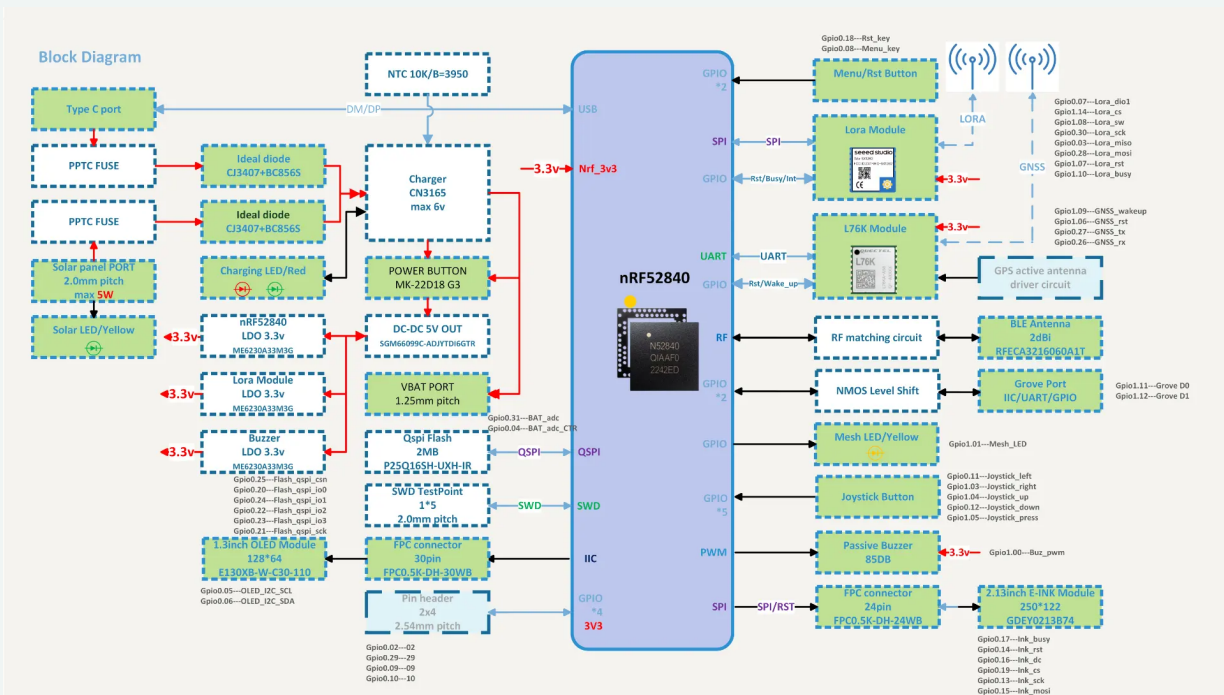
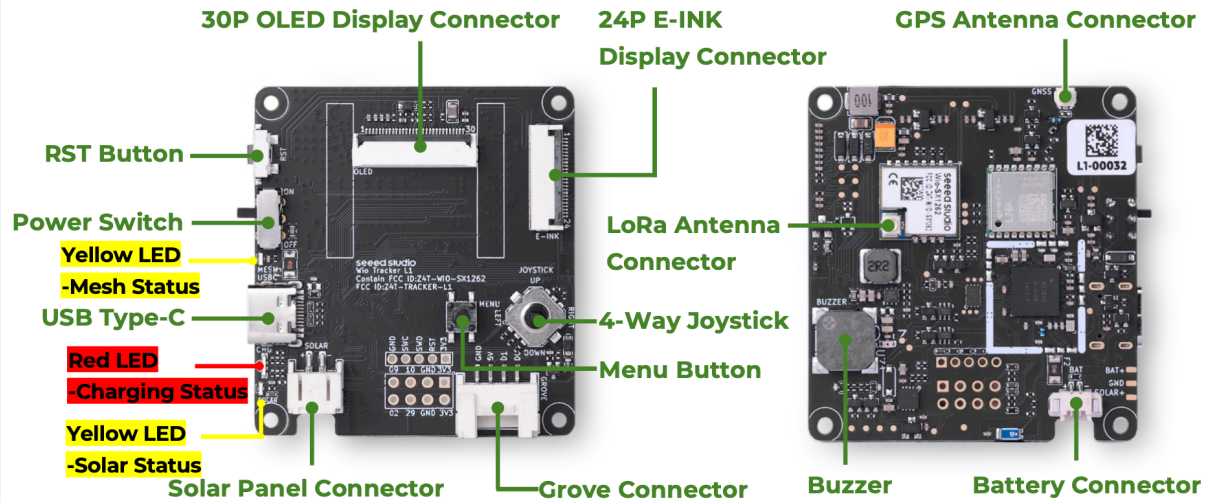


Specification

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)
Interface	Screen interfaces: ● 1.3 inch OLED *1 ● 2.13 inch E-ink *1
	Grove *1: UART/IIC/GPIO
	Plated Through Hole (PTH) : UART/IIC/GPIO/Analog
	Soldering pads reserved for SWD
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

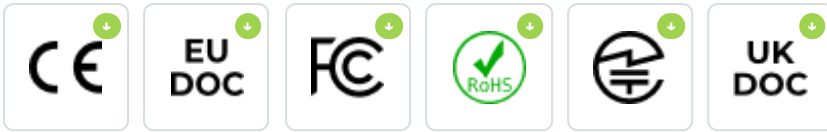




Part List

Wio Tracker L1 Board	x1
LoRa Antenna	x1
GPS Antenna	x1
60mm RF Cable(RP-SMA Female to IPEX)	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-Lite-p-6455.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