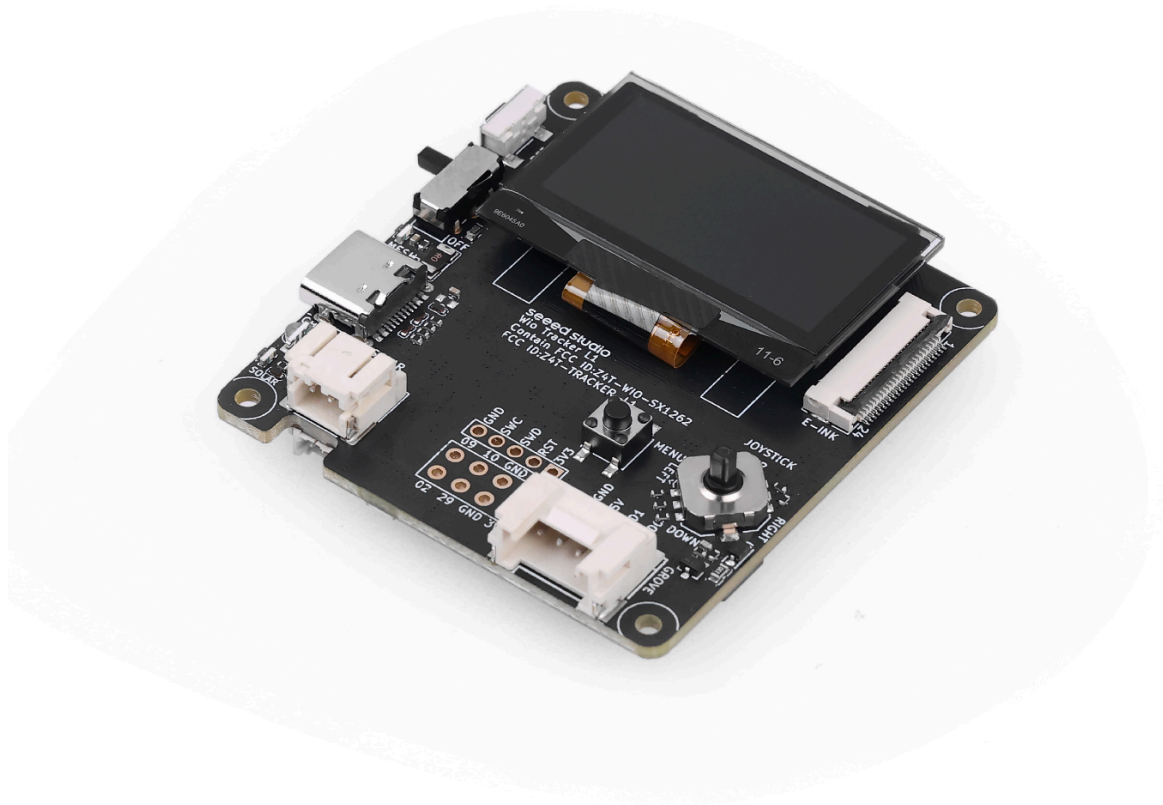


# Wio Tracker L1 Meshtastic Node



The Wio Tracker L1 Series is a low-power, highly extensible Meshtastic node featuring LoRa (862–930 MHz), the nRF52840 for efficient processing, and an L76K GPS module for accurate location tracking. Designed for flexibility, it supports OLED and E-Ink displays, as well as solar panels and battery power, making it ideal for a wide range of IoT and off-grid applications.

## Version Comparison

### TIP

The Wio Tracker L1 Series is available in 4 versions—choose the one that best fits your needs.

| Product Name            | Wio Tracker L1 Lite                                                               | Wio Tracker L1                                                                    | Wio Tracker L1 Pro                                                                 | Wio Tracker L1 E-Ink                                                                |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Image                   |  |  |  |  |
| Purchase Link           | <a href="#">Get One Now!</a>                                                      | <a href="#">Get One Now!</a>                                                      | <a href="#">Get One Now!</a>                                                       | <a href="#">Get One Now!</a>                                                        |
| LoRa                    | ✓                                                                                 | ✓                                                                                 | ✓                                                                                  | ✓                                                                                   |
| GPS                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                  | ✓                                                                                   |
| Screen                  | -                                                                                 | 1.3-inch OLED<br>Resolution: 128 × 64 pixels                                      | 1.3-inch OLED<br>Resolution: 128 × 64 pixels                                       | 2.13-inch E-ink<br>Resolution: 122 × 250 pixels                                     |
| Solar+Battery Connector | ✓                                                                                 | ✓                                                                                 | Built-in 2000mAh battery                                                           | ✓                                                                                   |
| Shell                   | -                                                                                 | -                                                                                 | ✓                                                                                  | -                                                                                   |

## Overview

### Features

- **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, and includes PTH headers and an SWD debugging interface for custom hardware expansion and advanced development.

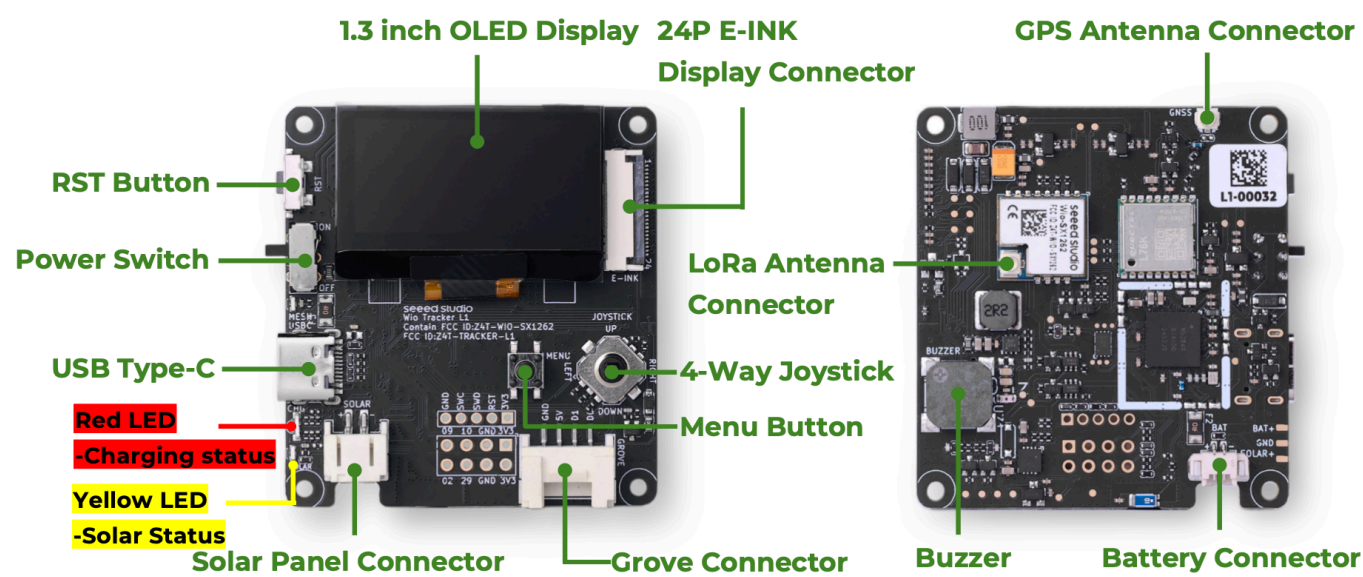
Specification

|                |                                                                 |
|----------------|-----------------------------------------------------------------|
| Processor      | Nordic nRF52840<br>ARM® 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)                               |
| Interface      | Grove *1: UART/IIC/GPIO                                         |
|                | Plated Through Hole (PTH) : UART/IIC/GPIO/Analog                |
|                | Soldering pads reserved for SWD                                 |
| Power Input    | USB Type-C: 5V — 1A                                             |
|                | Solar Panel: 5V — 1A                                            |
|                | Lithium Battery: 3.7V — 1A                                      |
| OLED Screen    | Size: 1.3 inch                                                  |
|                | Resolution: 128 × 64 pixels                                     |

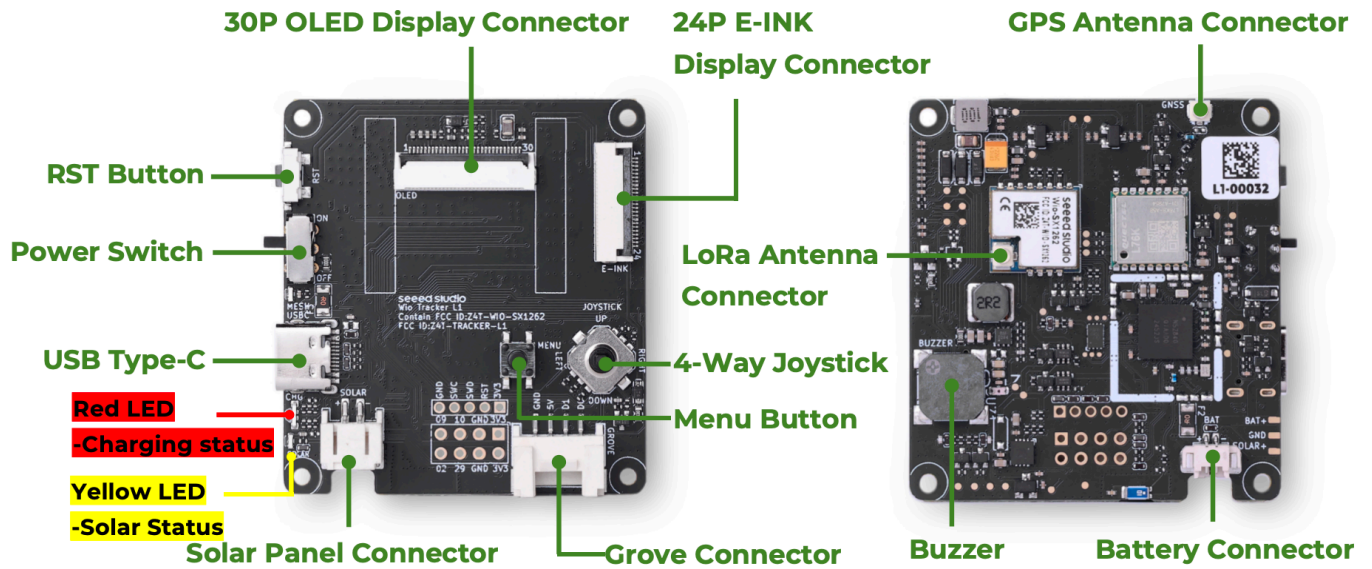
|               |                                   |
|---------------|-----------------------------------|
|               | Active Area (mm): 34.5 × 23.0     |
| E-Ink Screen  | Size: 2.13 inch                   |
|               | Resolution: 122 × 250 pixels      |
|               | Active Area (mm): 48.55 × 23.7046 |
| Certification | FCC, CE, RoHS                     |

Hardware Overview

Wio Tracker L1



Wio Tracker L1 Lite



## Wio Tracker L1 Pro



## Diagram

