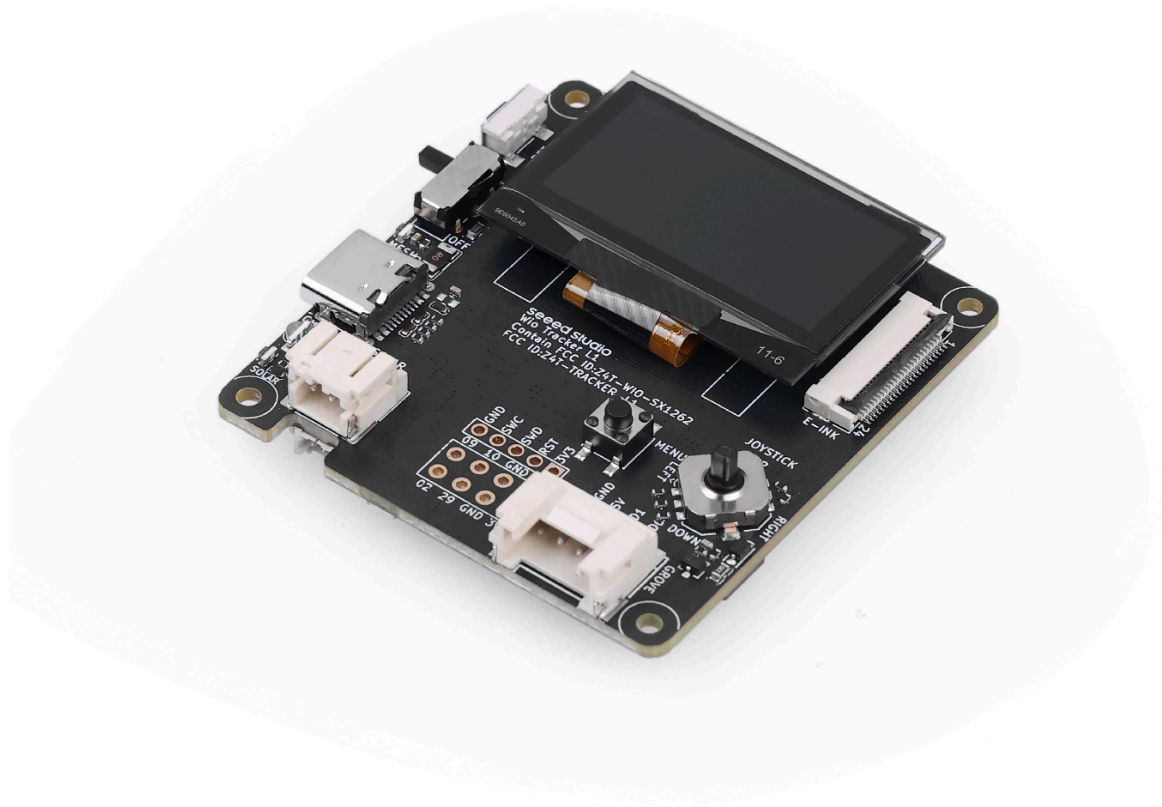


Wio Tracker L1 Meshtastic Node



[Get One Now](#)

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.

L1 Series Model



TIP

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

Version Comparison

Product Name	Wio Tracker L1 Lite	Wio Tracker L1	Wio Tracker L1 Pro	Wio Tracker L1 E-Ink
Image				
Purchase Link	Get One Now!	Get One Now!	Get One Now!	Get One Now!
LoRa	✓	✓	✓	✓
GPS	✓	✓	✓	✓
Screen	-	1.3-inch OLED Resolution: 128 × 64 pixels	1.3-inch OLED Resolution: 128 × 64 pixels	2.13-inch E-ink 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



TIP

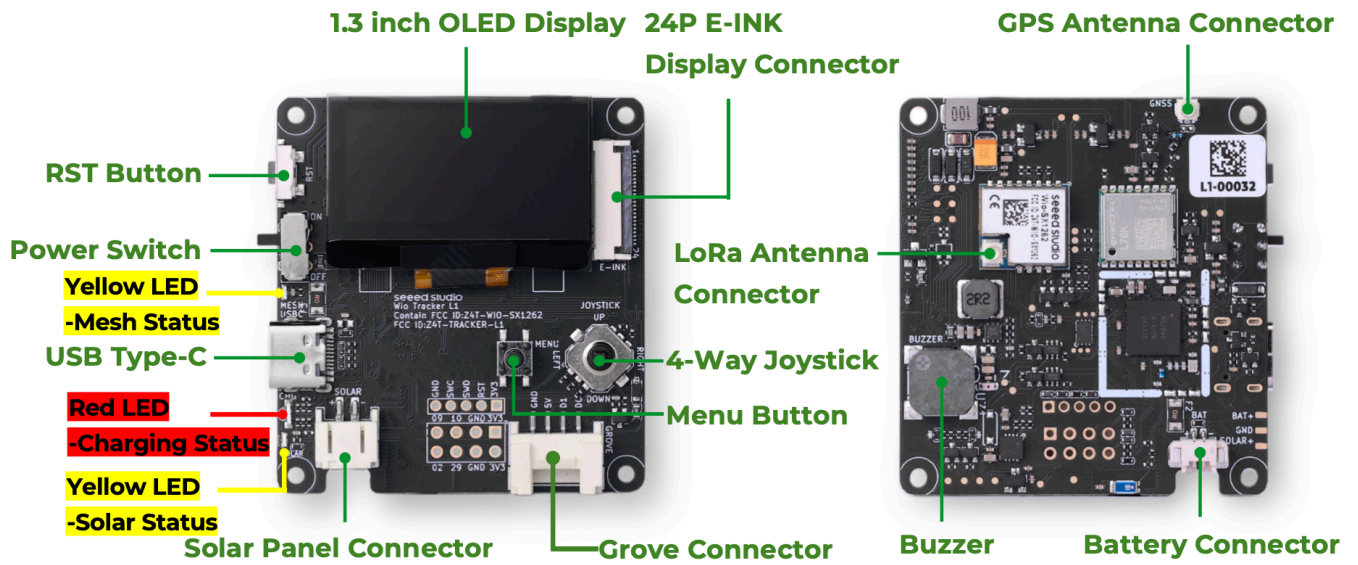
The latest batches of L1, L1 Lite and L1 E-Ink all come with a battery adapter cable, converting the 1mm interface to a 2mm interface. This gives you more options for batteries.

Processor	Nordic nRF52840 ARM® 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
	LoRa antenna for L1 Pro: 3dBi
	Bluetooth 5.0
GPS	L76K (GPS, BeiDou, GLONASS, QZSS)
Interface	Grove *1: UART/IIC/GPIO
	Plated Through Hole (PTH) : UART/IIC/GPIO/Analog

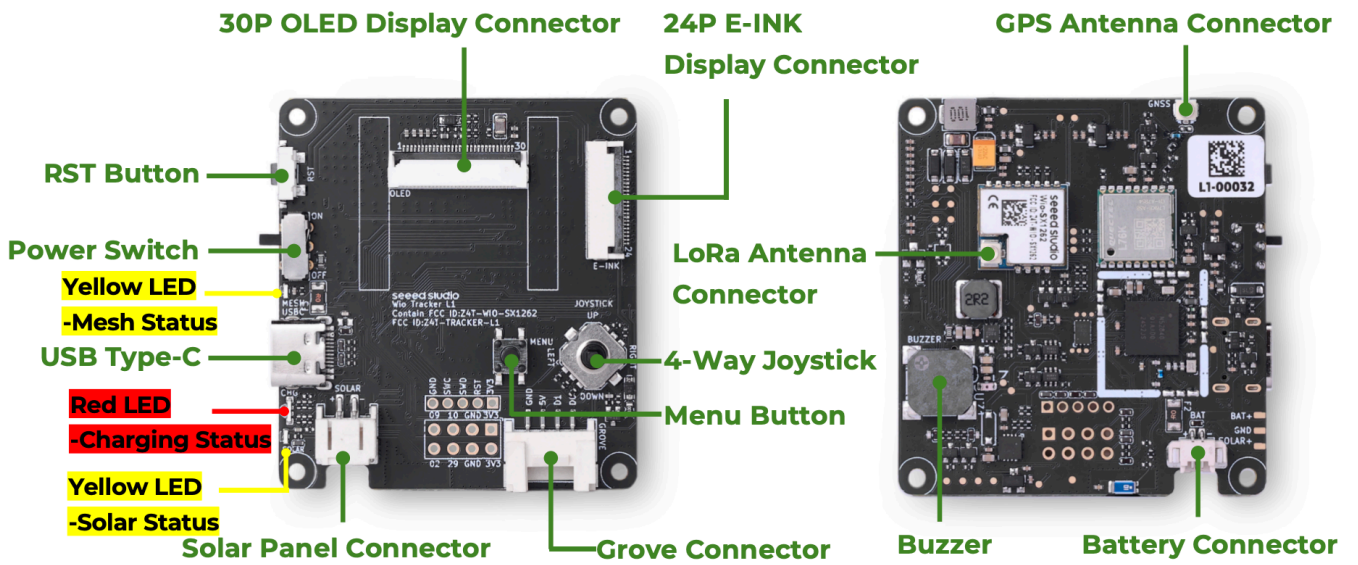
	Soldering pads reserved for SWD
Power Input	USB Type-C: 5V — 1A
	Solar Panel (2.0mm 2p): 5V — 1A
	Lithium Battery (1mm 2p JST): 3.7V — 1A
OLED Screen	Size: 1.3 inch
	Resolution: 128 × 64 pixels
	Active Area (mm): 34.5 × 23.0
E-Ink Screen	Size: 2.13 inch
	Resolution: 122 × 250 pixels
	Active Area (mm): 48.55 × 23.7046
Certification	FCC, CE, RoHS

Hardware Overview

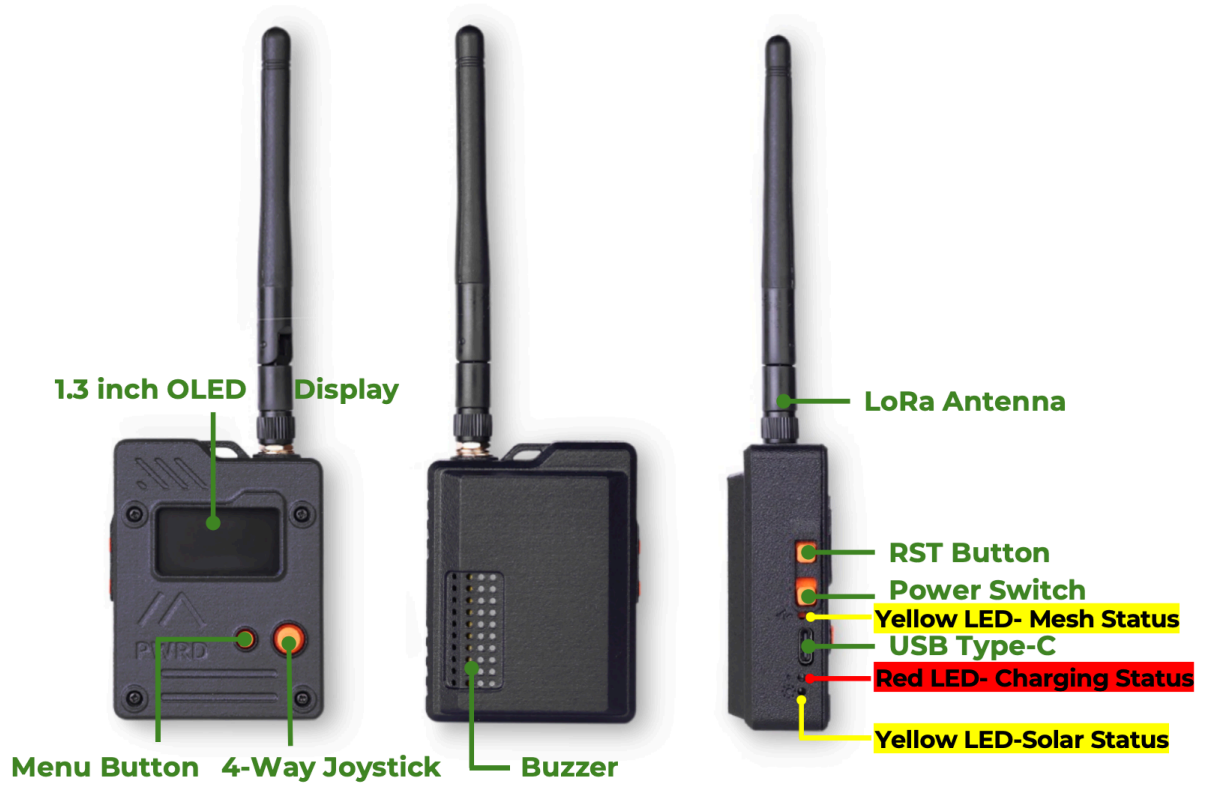
Wio Tracker L1



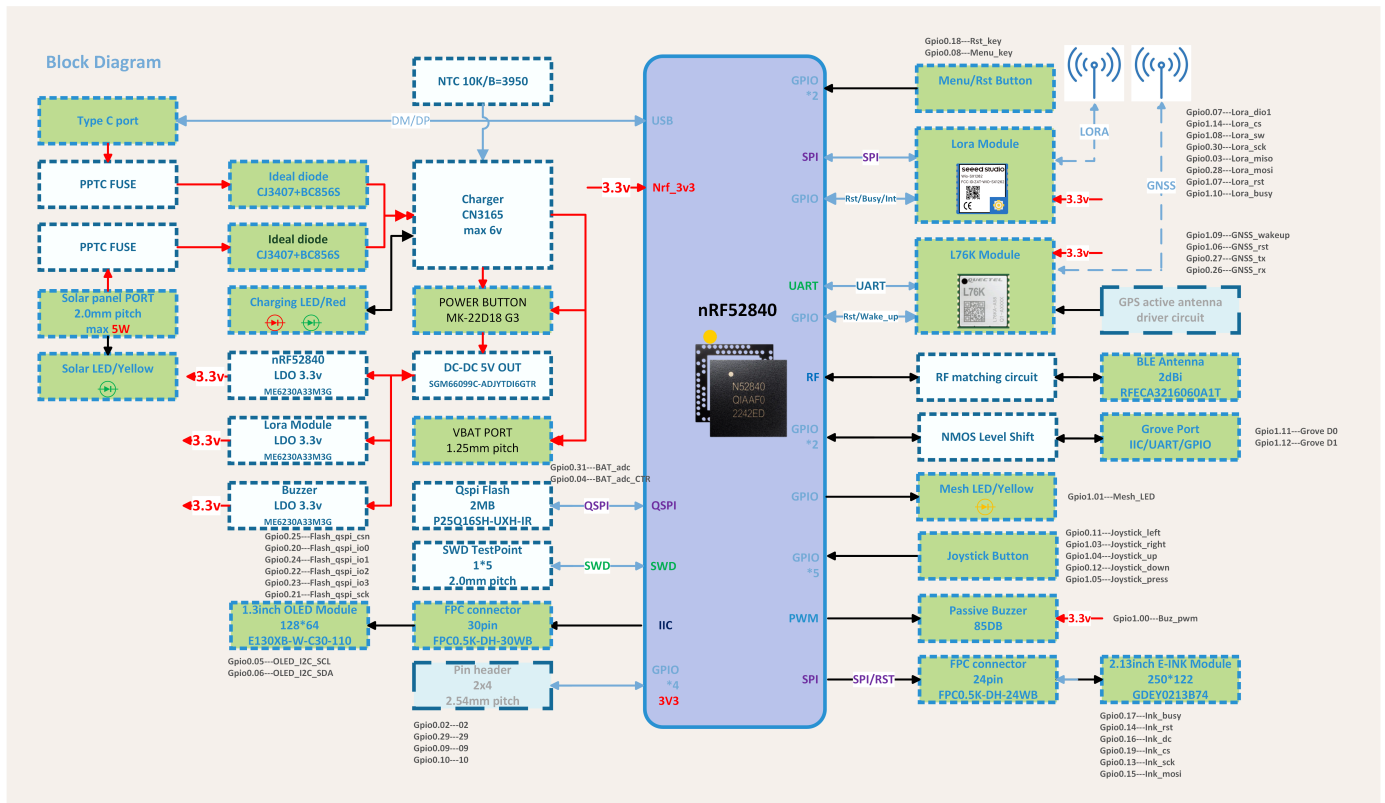
Wio Tracker L1 Lite



Wio Tracker L1 Pro



Diagram



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Last updated on **Dec 18, 2025** by **Michelle Huang**