Seeed Wio Tracker Setup Guide

⚠ **ANTENNA SAFETY - ALL DEVICES:** Always connect an antenna **before** powering on or transmitting with any LoRa device. Transmitting without an antenna can damage the radio. SX1262-based boards (like the Wio Tracker) are relatively low-power and tolerate brief antenna mismatches better than older parts, and simply powering the board on without transmitting is generally harmless - but never deliberately transmit without an antenna connected.

Seeed Wio Tracker L1 - Setup Guide

The Seeed **Wio Tracker L1** is an nRF52840-based Meshtastic node with an SX1262 LoRa radio, an L76K multi-GNSS (GPS) module, and a 1.3" OLED display. The **L1 Pro** variant adds an enclosure and an integrated battery - strongly recommended for field deployment over the bare L1 board.

A note on naming, since Seeed's lineup is easy to confuse: the **Wio Tracker L1** is the bare board used for this build; the **L1 Pro** is the L1 plus an enclosure and integrated battery. These are distinct from the separate **Wio Tracker 1110**, which is a different LR1110-based development board - it is **not** the same product as the L1, so match the exact name to the store listing before you buy.

Specifications

Attribute	Value
MCU	nRF52840
Radio	SX1262
Display	1.3" OLED
GPS	L76K multi-GNSS module

Price (L1)	$32.99 (bare board, no enclosure, no battery) - Seeed store, as of 2026-06-08; prices drift, verify before buying
Price (L1 Pro)	$46.99 (enclosure + integrated battery) - Seeed store, as of 2026-06-08; prices drift, verify before buying
Strengths	nRF52840 efficiency, GPS, OLED, ready-to-use battery + enclosure on L1 Pro

L1 vs L1 Pro - Which to Buy: The bare L1 board has no enclosure and no battery. Most users deploying in the field should choose the **L1 Pro**, which ships as a ready-to-use node with an enclosure and an integrated battery.

Driver Installation

No driver installation required on any operating system. The nRF52840 presents as a USB mass storage device. It appears automatically on Windows, macOS, and Linux.

Entering Bootloader / DFU Mode

1. Connect the device via USB.
2. Locate the **RESET button** (may be recessed - use a SIM card ejector pin, toothpick, or similar small tool).
3. **Double-tap the RESET button** quickly.
4. The device will appear as a USB drive.

If the USB drive does not appear, retry the double-tap - timing sensitivity is similar to the T-Echo.

Firmware Flashing

Method A - Web Flasher (recommended):

1. Enter DFU mode (double-tap RESET).
2. Open Chrome or Edge and navigate to:
   - **MeshCore:** flasher.meshcore.io
   - **Meshtastic:** flasher.meshtastic.org
3. Select the **Wio Tracker L1** variant from the device list.
4. Click **Flash**.

Method B - Drag and Drop:

1. Download the `.uf2` firmware file.
2. Enter DFU mode.

3. Drag and drop the `.uf2` file onto the USB drive.
4. Device reboots automatically.

Post-Flash Configuration

1. GPS begins acquiring satellites automatically after boot.
2. Connect via Bluetooth app and set **region to US**.
3. Configure node name and channel settings.

Known Quirks

- The RESET button may be recessed - have a SIM pin or similar tool available.
- GPS first fix may take several minutes on a fresh boot outdoors.
- L1 bare board requires an external battery and enclosure for practical field use.

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