

Seeed Wio Tracker Setup Guide

⚠ **ANTENNA SAFETY - ALL DEVICES:** Always connect an antenna **before** powering on any LoRa device. Even a brief transmission without an antenna connected risks **permanent damage** to the LoRa radio chip.

Seeed Wio Tracker 1110 - Setup Guide

The Seeed Wio Tracker 1110 (also called the Wio Tracker L1) is an nRF52840-based node with built-in GPS and a 1.3" OLED display. The L1 Pro variant adds a rugged enclosure and 2000 mAh battery - strongly recommended for field deployment over the bare L1 board.

Specifications

Attribute	Value
MCU	nRF52840
Radio	SX1262
Display	1.3" OLED
GPS	Built-in
Price (L1)	\$29.90 (bare board, no enclosure, no battery)
Price (L1 Pro)	\$42.90 (rugged enclosure + 2000 mAh battery)
Strengths	nRF52840 efficiency, GPS, OLED, long battery life 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 includes a rugged weatherproof enclosure and a 2000 mAh 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** 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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