Premium & Feature-Rich Devices

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Premium devices (roughly $43 - $109, as of 2026-06-08) target users who want a self-contained communicator, maximum battery life, infrastructure-grade performance, or specialised capabilities like NFC. Prices are volatile and vary by vendor and region.

LilyGo T-Deck - $43 - $53 (as of 2026-06-08)

A standalone LoRa communicator with a full QWERTY keyboard and 2.8" touchscreen. Can be used without a phone - type and read messages directly on the device. Best choice for field use where you want a dedicated communicator rather than pairing with a phone. Note: the base T-Deck ships with no battery; only the T-Deck Plus includes a built-in cell (see below).

- **MCU:** ESP32-S3
- **Display:** 2.8" IPS touchscreen
- **Input:** QWERTY keyboard + trackball
- **Battery:** Not included (standard LiPo)

LilyGo T-Deck Plus - $65 - $85 (as of 2026-06-08)

The T-Deck Plus adds GPS and a built-in 2000 mAh battery to the base T-Deck. The GPS makes it useful for position-aware mesh communications without any external modules. (The 2000 mAh cell is specific to the Plus; the base T-Deck has no built-in battery.)

LilyGo T-Echo - $50 - $65 (as of 2026-06-08)

E-ink display, nRF52840, GPS, and NFC in one device. The nRF52840 + e-ink combination can deliver multi-day battery life on a single charge, but real-world runtime varies widely with configuration (device role, channel utilisation, GPS on/off) and is often considerably shorter under active routing. The manufacturer does not state a fixed "7-14 day" figure - treat any runtime claim as configuration-dependent. The NFC functionality is available for app pairing workflows.

- **MCU:** nRF52840
- **Display:** E-ink
- **Battery life:** Multi-day, highly configuration-dependent (no fixed manufacturer figure)
- **GPS:** Yes
- **NFC:** Yes

Wio Tracker L1 Pro - $46.99 (Seeed Studio, as of 2026-06-08)

Rugged enclosed version of the Wio Tracker L1. Built on a bare nRF52840 + Wio-SX1262 (not a RAK4630 module). Includes GPS, a 128×64 OLED, and a built-in battery. Good choice for outdoor carry or vehicle mounting where a bare board is not practical.

Nano G2 Ultra - ~$86 (Unit Engineering direct) to ~$99 (Rokland) (as of 2026-06-08)

Uses nRF52840 and a wideband LoRa antenna that covers roughly 815 - 940 MHz, making it compatible with multiple regional frequency plans (the matching network still constrains real performance at the band edges). Has a 1.3" OLED screen. Rated battery life of ~3.5 days. Good choice for travellers who operate on different regional networks.

RAK WisMesh Pocket - $99 (WisMesh Pocket V2, as of 2026-06-08)

A polished handheld device with a 3200 mAh battery, 1.3" OLED display, and GPS. The large battery and GPS make it well-suited as a primary communicator for extended outdoor use. (The earlier $89 figure reflected the V1; the current V2 is $99.)

Station G2 - ~$109 (as of 2026-06-08)

The infrastructure workhorse. Built on an ESP32-S3 (WROOM-1) + SX1262 with a 35 dBm power amplifier and LNA. Its rated 36.5 dBm (4.46 W) US915 output is the highest of any standard supported device - but note this exceeds the FCC 30 dBm (1 W) conducted limit for unlicensed Part 15.247 use; operating at full output is only lawful under an amateur license (Part 97, which prohibits encryption and requires station ID). Includes a low-noise amplifier (LNA) for improved receive sensitivity. Designed to sit at a high point and serve as a backbone node. Requires 15 V USB-C Power Delivery - a standard USB charger will not work.

- **TX power:** 36.5 dBm (4.46 W) - exceeds the FCC 30 dBm conducted limit; full output is Part 97 (licensed) only
- **LNA:** Yes
- **Power input:** 15 V USB-C PD
- **Use case:** Fixed base station / high-site repeater

Premium Device Summary

Prices below are as of 2026-06-08 and are volatile.

Device	Price	MCU	Display	GPS	Battery	Standout Feature
T-Deck	$43 - $53	ESP32-S3	2.8" touch	No	External LiPo (none built-in)	QWERTY keyboard
T-Deck Plus	$65 - $85	ESP32-S3	2.8" touch	Yes	2000mAh (built-in)	QWERTY + GPS included
T-Echo	$50 - $65	nRF52840	E-ink	Yes	Multi-day (config-dependent)	Long battery + NFC
Wio L1 Pro	$46.99	nRF52840	OLED 128×64	Yes	Built-in	Rugged enclosed
Nano G2 Ultra	~$86 - $99	nRF52840	1.3" OLED	No	~3.5 days	815 - 940 MHz wideband
RAK WisMesh Pocket	$99 (V2)	nRF52840	OLED 1.3"	Yes	3200mAh	Large battery + GPS
Station G2	~$109	ESP32-S3	-	No	External	36.5 dBm (Part 97 only), LNA

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