MeshOS (Standalone Device Firmware)

Overview

MeshOS is standalone device firmware for keyboard-equipped MeshCore devices, developed by Andy Kirby. (Note: Andy Kirby is the developer of MeshOS, not the founder of MeshCore - MeshCore was created by Scott of Ripple Radios. The MeshCore companion app is developed by Liam Cottle.) MeshOS is maintained at meshcore.co.uk, separate from the core team's canonical firmware at github.com/meshcore-dev/MeshCore.

MeshOS is purpose-built for T-Deck class devices and phone-independent operation.

Target Devices

- LilyGo T-Deck
- LilyGo T-Deck Plus
- LilyGo T-Lora Pager (T-Pager)

Pricing

- **Base features:** Free
- **Full license:** ~£8 one-time, tied to device serial number (as of 2026-06-08; price/availability via meshcore.co.uk)

Features

Feature	Free	Paid (£8)

Direct messaging with E2EE	Yes	Yes
Channel / group messaging	Yes	Yes
Repeater Scanner with whitelist management	Yes	Yes
Last Heard list (signal strength + distance)	Yes	Yes
Mesh Signal Meter	Yes	Yes
Noise Floor Monitor (live RF background graph)	Yes	Yes
Trace Route	Yes	Yes
QR code display for URLs	Yes	Yes
Lock screen (time, battery, mesh signal)	Yes	Yes
Terminal access with packet logging	Yes	Yes
Repeater Admin (clock sync, stats, adverts)	No	Yes
Offline world maps (T-Deck Plus only)	Limited zoom	Full zoom

When to Choose MeshOS

- You own a T-Deck or T-Deck Plus and want fully phone-independent operation
- You are a repeater operator who needs on-device diagnostics (Noise Floor Monitor, Trace Route, Repeater Admin)
- You want go-bag / emergency deployments with no phone dependency

When NOT to Choose MeshOS

- You need GPS-based maps but only have a standard T-Deck (not the Plus) - GPS is required for mapping features
- You need firmware for hardware outside the T-Deck family - use the core team firmware

Governance Note

MeshOS is Andy Kirby's separate firmware product, distributed via meshcore.co.uk; it is distinct from the canonical MeshCore firmware at github.com/meshcore-dev/MeshCore maintained by the MeshCore core team (the project was founded by Scott of Ripple Radios). There has been a dispute

between Andy Kirby and the MeshCore core team over direction and naming; both MeshOS and the core-team firmware are actively maintained choices. MeshOS is optimized for standalone keyboard devices; the core-team firmware covers the full hardware range and is the reference implementation for new device support.

Revision #3
Created 2026-05-03 03:34:39 UTC by Mesh America Admin
Updated 2026-06-09 16:09:03 UTC by Mesh America Admin