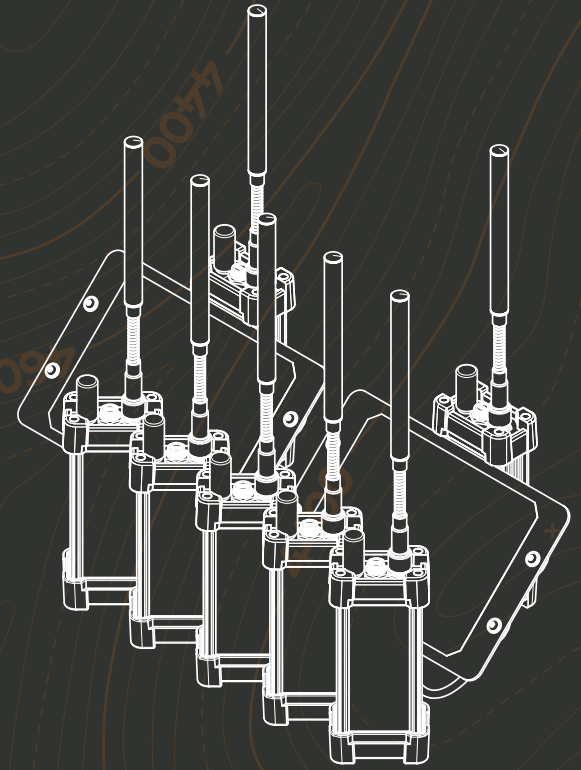


The RM-2 Radio

Twice the power of the RM-1, on a U.S.-manufactured PCB.

Same body as the RM-1. Every RM-1 accessory fits.

A licensed operator gets 2W of output in the same body as the RM-1. Text and GPS come first, with near real-time voice over mesh as a bonus. Built on the RM-1 platform proven in Hurricane Helene recovery.



2W

LoRa output
under Part 97

10Ah

Li-ion battery,
days per charge

3hr

full charge with
the RC-2 adapter

KEY SPECS

- **Output**
2W LoRa (fixed) for licensed amateur operators (Part 97). Legal at 2W with Ham Mode enabled (encryption off) and a valid amateur callsign.
- **PCB**
New LoRa board designed by AT Labs and manufactured in the U.S. Ebyte E22-900M33S with Sseed Xiao nRF52.
- **Voice**
Voice over mesh on Meshtastic Short Turbo, near real-time. Text and GPS come first; voice is a bonus.
- **Build**
10 Ah Li-ion, days of operation per charge. Extruded aluminum with rubber shock bumpers on both ends.
- **Antennas**
High-gain gooseneck LoRa antenna and a dedicated GNSS antenna.
- **Controls**
Power and RX indicators, power and reset buttons. Waterproof USB-C for data.

RM-1 OR RM-2

RM-1

Filtered 1W. License-free and encrypted. Up to 30 days as infrastructure.

RM-2

2W under Part 97 for licensed amateur operators. Voice over mesh.

ECOSYSTEM COMPATIBILITY

- **Firmware**
868/915 MHz ISM. Meshtastic, MeshCore, Reticulum. AT Labs firmware (firmware.at-labs.tech) pre-tunes settings to keep the radio in spec. Recommended.
- **Mixed fleets**
Backward-compatible with the RM-1 and standard Meshtastic channels.
- **Response Crate**
The radio inside the Response Crate (15 cradles) and the Crate Mini (5 radios).
- **SX-E Pouch**
By Swift Design & Textiles. Made in USA, built for the RM family.

IN THE BOX

- **RC-2 Quick Charge Adapter**
Full charge in about 3 hours. 12V 2A wall adapter plus a 5.5x2.1 mm barrel input for solar, vehicle, or power station 12V DC.

PRICING

From \$795

Portable **\$795**

Infrastructure **\$895**

Made-to-order · ~8-week lead time

Infrastructure: repeater config with mounting brackets and solar panel.

BUDGET-CONSTRAINED? FundingReach matches agencies and volunteer teams with applicable grants: funding.at-labs.tech/apply



Contact us to get a quote.

rob@constellationresponse.com

AT Labs hardware and software designed and built in Tennessee by Kenny Cornett · Offered through Constellation Response
MIL-STD-810H certification pending. Range and battery life depend on terrain, conditions, and configuration.
Part 97 compliance rests with the operator. Use AT Labs firmware (firmware.at-labs.tech) to keep TX settings in spec.