

Prebuilt Solar Repeater Units

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Prebuilt solar nodes take the complexity out of outdoor deployments. They arrive weather-rated, often pre-flashed, and ready to mount. The trade-off is higher cost compared to a DIY build. Prices below are as of 2026-06-08 and vary by retailer.

RAK WisMesh Repeater - \$129 (as of 2026-06-08)

IP67-rated enclosure with 5.2Ah battery and pre-flashed MeshCore repeater firmware. Designed specifically for unattended outdoor deployment. Mount it, point the solar panel, and it runs.

- **IP rating:** IP67
- **Battery:** 5.2Ah
- **Firmware:** MeshCore (pre-flashed)
- **Solar:** External panel required (sold separately); RAKwireless also lists a bundled solar-panel version

RAK WisMesh Repeater Mini - \$69 (as of 2026-06-08)

A smaller, lower-cost version of the WisMesh Repeater. IP65 rated with a 2000mAh battery. Good starting point for a solar site where you want a prebuilt option without the full Repeater cost.

SenseCAP Solar Node P1 - \$69.90 (as of 2026-06-08)

Integrated solar panel in the housing. No external battery included - you add your own 18650 cells. Low entry cost if you already have cells.

SenseCAP Solar Node P1-Pro - \$89.90 (as of 2026-06-08)

A popular choice for outdoor repeaters. Includes built-in GPS, capacity for 4x 18650 cells, and an integrated solar panel. Ships with Meshtastic firmware. The GPS enables position reporting from the repeater itself.

- **GPS:** Yes
- **Battery capacity:** 4x 18650 (cells not included)
- **Solar:** Integrated
- **Firmware:** Meshtastic (pre-flashed)

Atlavox Beacon - \$235.99 (as of 2026-06-08)

Premium solar repeater with a 5W ETFE solar panel, 5000mAh battery, and IP67 rating. ETFE panels are more durable and efficient than standard PET-laminated panels, making this a good long-term investment for critical sites.

Atlavox Beacon Outpost - \$269.99 (as of 2026-06-08)

Same hardware as the Beacon but comes pre-flashed and pre-configured, with an ALFA antenna included. Zero-setup deployment - unbox, mount, done.

PEAKmesh Solar Nodes - ~\$99+ (as of 2026-06-08)

Community-built nodes (sold via Etsy) with vendor-claimed runtimes of up to a month without sun, using large 21700 lithium-ion cells. Available in birdhouse and tree-hang form factors - useful for natural environments where a standard enclosure would look out of place or draw attention.

Yeti Wurks Base Station - ~\$99+ (as of 2026-06-08)

IP65-rated, pre-configured. Yeti Wurks also offers a solar kit (~\$150) that bundles the base station with a 5.5W solar panel - a convenient all-in-one purchase for a new solar site.

Seed MeshCore Starter Kit - ~\$132.80 (as of 2026-06-08)

Bundles a SenseCAP P1-Pro (solar node/repeater) with a Wio Tracker L1 Pro (handheld/carry device), both pre-flashed with MeshCore. The most convenient way to get both an infrastructure node and a personal device in one purchase.

Prebuilt Solar Node Comparison

Prices and specs as of 2026-06-08; confirm against the vendor listing before purchase.

Device	Price	Battery	IP Rating	Solar Included	Pre-flashed	GPS
RAK WisMesh Repeater	\$129	5.2Ah	IP67	No	Yes	No
RAK WisMesh Repeater Mini	\$69	2000mAh	IP65	No	No	No
SenseCAP P1	\$69.90	18650 (DIY)	Yes	Yes	No	No
SenseCAP P1-Pro	\$89.90	4x 18650 (DIY)	Yes	Yes	Yes	Yes
Atlavox Beacon	\$235.99	5000mAh	IP67	5W ETFE	Yes	No
Atlavox Beacon Outpost	\$269.99	5000mAh	IP67	5W ETFE	Yes (configured)	No
PEAKmesh Solar Nodes	~\$99+	30+ day rated (vendor-claimed)	Yes	Yes	Yes	Varies
Yeti Wurks Base Station	~\$99+	-	IP65	Optional (~\$150 kit)	Yes	No

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