

☐☐ Start Here — MeshCore Repeaters Guide

This book covers everything about deploying MeshCore REPEATER firmware nodes - from choosing a site to building the hardware, configuring the firmware, and troubleshooting problems.

☐☐ Where to Start

1. [What is a MeshCore Repeater?](#) - Role in the network explained
2. [Choosing a Repeater Location](#) - Site selection principles
3. Then choose a build path: [Budget build \(~\\$60\)](#) or [Pro solar build \(~\\$217\)](#) (*approximate component totals as of June 2026; hardware prices vary by vendor and over time — check the linked build pages and current vendor listings before ordering*)

☐☐ What's In This Book

Planning and Site Selection

- [Choosing a Repeater Location](#)
- [Antenna Selection and Mounting](#)
- [Planning a MeshCore Community Network](#)
- [Repeater Density and Coverage Calculations](#)

Hardware Builds

- [Budget MeshCore Repeater: Under \\$60](#)
- [Pro MeshCore Solar Repeater: Complete Build](#)
- [Hardware Considerations](#)
- [Power and Solar Systems](#)

Configuration

- [Flashing Repeater Firmware](#)
- [Radio Settings and Presets](#)
- [Advertisements and Discovery](#)
- [MeshCore Repeater Name and Identity](#)
- [Multi-Repeater Network Coordination](#)

Network Design and Expansion

- [Room Servers & Gateways](#) - Placement strategy and adding a room server to your repeater site (covered in the dedicated Room Servers & Gateways book)
- [When to Add a Repeater vs. When to Move One](#)
- [Linking Isolated Mesh Islands](#)
- [MeshCore vs Meshtastic: Choosing for Your Community](#)

Troubleshooting

- [Diagnosing MeshCore Repeater Problems](#)
- [Advanced MeshCore Repeater Diagnostics](#)
- [Reflashing and Factory Reset](#)

➔ Related Books

- [MeshCore](#) - Protocol, firmware, and app guide
- [Room Servers & Gateways](#) - Adding a room server to your repeater site
- [Solar & Power Systems](#) - Powering outdoor repeaters
- [Antennas & RF](#) - Antenna selection and installation

Revision #3

Created 2026-05-03 11:01:16 UTC by Mesh America Admin

Updated 2026-06-09 00:55:43 UTC by Mesh America Admin