□□ Start Here — Meshtastic Repeaters Guide

This book covers Meshtastic infrastructure nodes - the ROUTER and REPEATER roles (and ROUTER_LATE) - from site selection through deployment, configuration, monitoring, and maintenance. (Note: the older ROUTER_CLIENT role was deprecated and removed in firmware 2.3.15 — use ROUTER or ROUTER_LATE instead. As of firmware ~2.7.x the REPEATER role is also deprecated; for most infrastructure the current recommendation is ROUTER. See the role pages for details.)

□□ Where to Start

1. What is a Meshtastic Repeater?
2. ROUTER vs REPEATER vs ROUTER_LATE: When to Use Each - Critical decision before you configure anything. This is the canonical role-decision page; start here for which role to pick.
3. Choosing a Repeater Location

A note on the role pages: several pages in this book discuss role selection (Device Roles Explained, the Deep Dive, and Router vs. Repeater: Which to Choose). Treat "ROUTER vs REPEATER vs ROUTER_LATE: When to Use Each" above as the authoritative, current-firmware reference; the other role pages provide background but predate the ROUTER_CLIENT removal (2.3.15) and REPEATER deprecation (~2.7.x), so where they disagree, follow the canonical page.

□□ What's In This Book

Roles and Role Configuration

- Device Roles Explained
- Router & Repeater Roles: Deep Dive
- Rebroadcast Mode: ALL_SKIP_DECODING

- Hop Limit Configuration for Repeaters
- Fixed Position for Repeater Nodes

Site Planning and Setup

- Choosing a Repeater Location
- Antenna and Signal Range Factors
- Initial Setup Walkthrough
- Channel Configuration for Infrastructure Nodes
- Legal Considerations - FCC power and antenna rules before you transmit

Advanced Features

- Store and Forward - Message persistence for offline nodes
- Position and Telemetry for Infrastructure Nodes

Network Reliability and Redundancy

- Designing for Reliability: N+1 Redundancy
- Planned Maintenance Procedures for Live Networks
- Channel Utilization Management

Monitoring and Maintenance

- Remote Monitoring a Meshtastic Repeater
- Firmware Updates on Deployed Repeaters
- Troubleshooting a Misbehaving Repeater

➡ Related Books

- Meshtastic - Protocol, configuration, and app guide
- Room Servers & Gateways - MQTT gateways
- Solar & Power Systems - Powering outdoor repeaters

- Network Planning - Coverage planning and topology design

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