

KachinaMesh: MeshCore Repeater Setup Guide

Flash your repeater over USB, using the web flasher at <https://meshcore.io/flasher> (chromium browser required). [Configure your repeater](#) over USB. The web based config app is at <https://config.meshcore.io/>

Key items for you to get right:

- **Name:** It is helpful if your repeater name gives a **hint about the location**, such as a landmark, neighborhood or cross streets.
- **Location:** Set the Location using the internet map or lat-lon coordinates. For security use an offset of ¼ mile or more
- **Guest Password “hello”. Admin Password:** Use a strong password. Repeaters can be administered over the mesh from the Meshcore app.
- **Advert Interval (minutes):** 120
- **Flood Advert Interval (hours):** 4
- **Flood max:** 16 -- adjust according to your liking, default is 64
- **Owner Info:** This is a free-text field, place your email, phone, or any other identifier to contact you with in case you need to be reached.
- **Radio Settings:** Repeaters and clients use the “USA/Canada” preset.

Frequency	910.525 MHz
Bandwidth	62.5 kHz
Spreading Factor	7
Coding Rate	5
TX Power (dBm)*	22

Advanced Settings

- **Loop Detection:** Moderate or default is fine.
- **Path hash mode: 2-byte; This is Important** for a healthy network.
- **AGC reset interval:** If you notice your node going "deaf" after some time, try setting this value to something greater than 0. The lower the value, the more often the node will reset the AGC. The minimum is 4.
- **RX Delay and TX Delay:** Nodes that are in very good locations should set these, otherwise the defaults are fine.
- **Multi ACKs:** Enable -- this instructs the repeater to send 2 acks, leading to a better remote admin experience.

After **saving** these settings, **re-boot** and **re connect**. **Advert** the repeater so that it will be seen and join our mesh.