

The Book Of TL;DT

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Quick setup

Repeaters

Xiao WIO nRF

Specs:

Low power consumption nRF52840 microcontroller and Wio-SX1262, supporting BLE5.0 and LoRa (862-930MHz)

- Lora 910MHz antenna is external U.FL and IPEX connector
- Bluetooth 2.4GHz antenna is internal
- Has an integrated 0.1A lithium ion battery charger

Purchase link:

<https://www.aliexpress.com/item/1005010599348765.html>

Programming:

Use the official repeater firmware at <https://meshcore.io/flasher>

NOTICE: This nRF board requires a bluetooth OTA bootloader

To be able to update Over The Air update the bootloader



Repeater

Special role just for routing packets. Configured via Config/Console on flasher main page

WARNING: We strongly recommend installing [OTAFIX bootloader](#) by [@oltaco](#) if you plan to update firmware via OTA bluetooth, as factory bootloader does not support it! [Read more](#)

Version

v1.17.1

Changelog:

Release notes:

<https://blog.meshcore.io/2026/08/14/release-1-17-1>

<> Enter DFU mode



Erase Flash



Flash!



Download

[Xiao_nrf52_repeater-v1.17.1-d929643.zip](#)

[Xiao_nrf52_repeater-v1.17.1-d929643.uf2](#)

[Xiao_nrf52_QSPIFlash_Format-v1.2.uf2](#)

[xiao_nrf52840_ble_bootloader-0.9.2-OTAFIX2.2.zip](#)

[xiao_nrf52840_ble_sense_bootloader-0.9.2-OTAFIX2.2.zip](#)

Quick Repeater Commands

Use those commands for your Ottawa repeater

To access the command line use <https://meshcore.io/flasher> top right console, or connect to the repeater with you companion using admin console in the repeater contact on your companion:

1. `set path.hash.mode 2`
2. `set advert.interval 240`
3. `set flood.advert.interval 47`
4. `set flood.max 16`
5. `set loop.detect moderate`
6. `region def yow|* on|* onqc|* can|* na`
7. `region allowf *`
8. `region default yow`
9. `region save`

Channel between Ottawa and Montréal

#onqc

We started using the meshcore channel #onqc to chat with Montréal through the region wall (Rigaud) in a flood # group channel. the way to do this is to add the channel then, in the channel, click the top right 3 dots, then set region scope.

If the list is empty then you can populate the region list in 3 dots, tools, discover regions then check onqc, OR in settings default region scope, +, add region onqc.

Sending a message with onqc passes through to Montréal, but Montréal has to add the same onqc region scope on the #onqc channel for their reply to pass through the region wall as well and be a 2 way communication.