

Rebroadcast Mode:

ALL_SKIP_DECODING

The rebroadcast mode controls how a node handles incoming packets for retransmission. For repeater deployments, `ALL_SKIP_DECODING` is strongly recommended. Note that `ALL_SKIP_DECODING` is only available when the device role is REPEATER - on any other role (including ROUTER) the setting behaves as `ALL`. If your node uses the ROUTER role, use rebroadcast mode `ALL` instead.

What ALL_SKIP_DECODING does

In this mode, the node rebroadcasts valid LoRa packets without attempting to decode or decrypt them. This mode is only available when `device.role` is REPEATER. It has several important advantages:

- **Lower CPU usage and power draw** - the node skips the packet-decoding/duplicate-check processing entirely, and it never decrypts or re-encrypts payloads
- **Relays channels whose key it does not have** - Meshtastic relays based on the unencrypted packet header, so a repeater forwards packets on any channel that shares its modem settings (preset/frequency), even private channels whose pre-shared key (PSK) - the encryption key that secures a private channel - the repeater does not hold. This lets one public repeater carry traffic for multiple user groups, provided they are all on the same modem preset.
- **Preserves end-to-end encryption** - messages are never decrypted at the repeater; the original encrypted packet is forwarded unchanged, maintaining the security model
- **Faster retransmission** - less processing time per packet means faster relay

Setting ALL_SKIP_DECODING via app

1. Connect to your device in the [Meshtastic app](#)
2. Make sure the device role is set to REPEATER first - the `ALL_SKIP_DECODING` option only applies on the REPEATER role

3. Go to **Settings** → **Device**
4. Find **Rebroadcast Mode** and select **ALL_SKIP_DECODING**
5. Save and allow the device to reboot

Setting ALL_SKIP_DECODING via CLI

```
meshtastic --set device.rebroadcast_mode ALL_SKIP_DECODING
```

This is only valid when `device.role` is REPEATER. The setting lives under the `device.` namespace, not `lora.`

Other rebroadcast modes (for reference)

Mode	Behavior	Use case
<code>ALL_SKIP_DECODING</code>	Rebroadcasts without decoding or decrypting	Recommended for all repeater deployments; requires REPEATER role
<code>ALL</code>	Processes/validates packets (including duplicate detection) before rebroadcasting the original encrypted packet; does not decrypt or re-encrypt payloads	Default; used on ROUTER and other roles that should relay
<code>LOCAL_ONLY</code>	Does not relay to other nodes	Not suitable for repeaters
<code>NONE</code>	No rebroadcasting (only permitted for SENSOR/TRACKER/TAK_TRACKER roles)	Not suitable for repeaters

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