In **Dubai (UAE)**, the **legal LoRa frequency band** is regulated by the **Telecommunications and Digital Government Regulatory Authority (TDRA)**.

868 MHz

- Specifically, **863–870 MHz** is the **ISM band** approved for LoRa use in the UAE.
- The 433 MHz band is not officially permitted for LoRa applications in UAE.
- On NOT use 433 MHz in Dubai it may be illegal or interfere with other services.
- So, updated values to use in Dubai:

Parameter	Suggested Value	Reason
BAND	868	Legal and standard in UAE
NETWORKID	12	Rare, non-default value
ADDRESS	in its range	High, uncommon address

AT+BAND=868000000 AT+NETWORKID=12 AT+ADDRESS=<range>

- Make sure to set the same NETWORKID on all devices in the same network.
- Each device should have a unique ADDRESS.

To **initialize the RYLR896 LoRa module** properly, you only need a few essential **AT commands** to set up the module for communication. Below is a minimal and **correct initialization sequence** that ensures the module is ready to send and receive data.

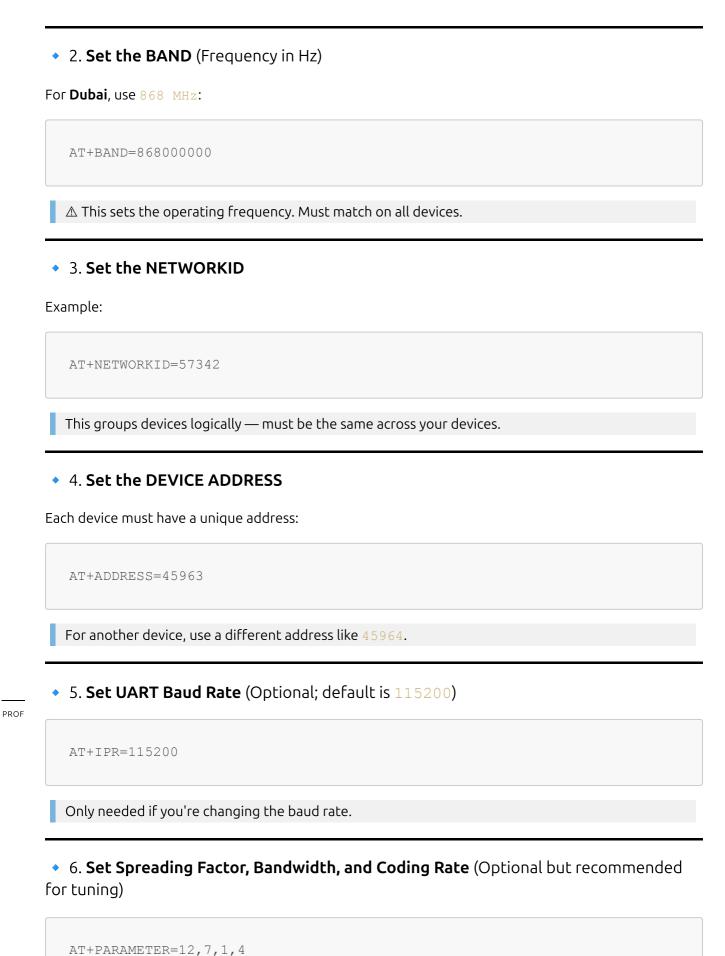
✓ Necessary AT Commands to Initialize RYLR896

• 1. **Reset the Module** (Optional but recommended)

AT+RESET

- Reboots the module.
- Wait ~1 second after this before sending the next command.

PROF



Format: AT+PARAMETER=SF, BW, CR, PreambleLen

Field	Value	Meaning
SF (Spreading Factor)	12	Higher range, lower data rate
BW (Bandwidth)	7	125 kHz
CR (Coding Rate)	1	4/5
PreambleLen	4	Default preamble

7. Enable or Disable Acknowledgement (ACK)

If you want the module to **expect ACKs** (reliable delivery):

```
AT+CRFOP=1
```

To disable ACK:

```
AT+CRFOP=0
```

✓ Example Full Initialization Script:

```
AT+RESET
<wait 1 sec>
AT+BAND=868000000
AT+NETWORKID=12
AT+ADDRESS=45963
AT+PARAMETER=12,7,1,4
AT+CRFOP=1
```

PROF

✓ Check Module is Ready

You can send:

```
AT
```

And you should get:

```
OK
```

✓ Sending a Message

To send a message to another device:

AT+SEND=45964,5,HELLO

Format: AT+SEND=<address>, <length>, <data>

+ 4 / 4 +