HOW TO SET UP THE 3000150xDSM TO WORK WITH THE DEMO GUI

USER GUIDE

Description

This document will guide you through an example setup of the LoRaMiP GUI.

Contents

1. Overview

The module will be controlled by a PC software connecting via the serial port. The device will exchange some messages with a similar device.

The software LoRaMiP GUI can be downloaded directly from the official Mipot website, link below.

https://mipot.com/en/

After logging in, in the product category, search for the product 32001505xxx (where xxx corresponds to the same version of the DevKit you have). Here, in the documents section, there are two versions (32 and 64 bit) of the software.

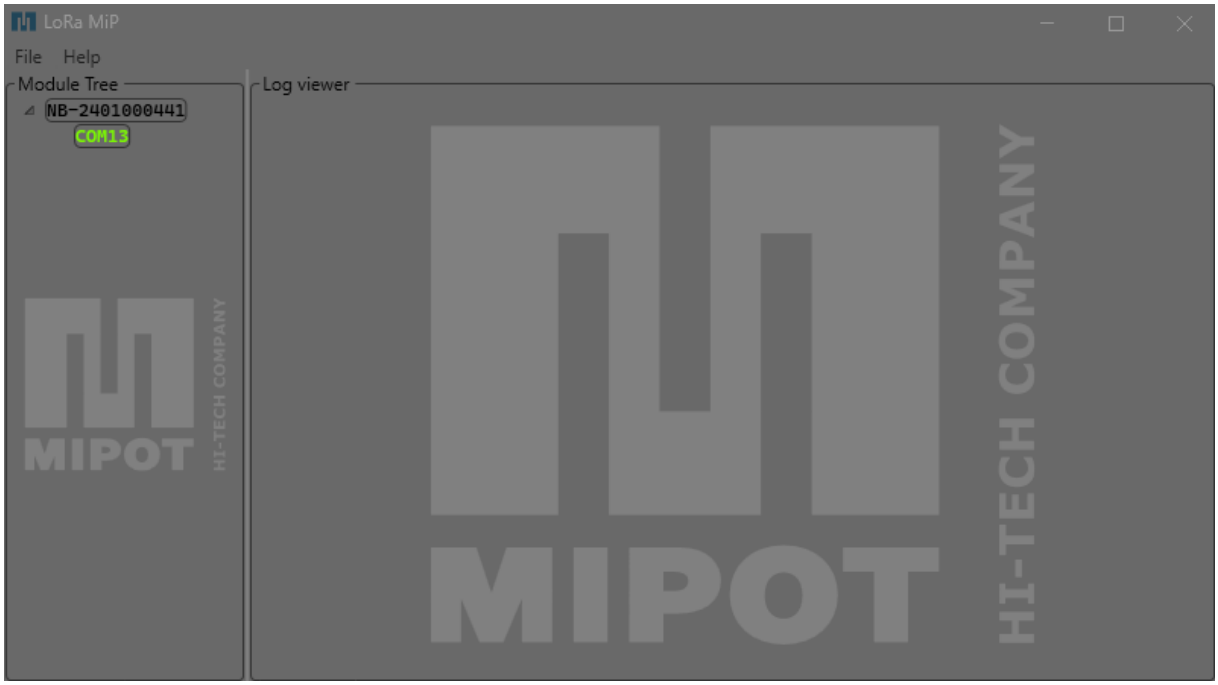
As regards the hardware setup of the DevKit, refer to the document AN_HWS001.

For details about the commands, please see the 3200150xDSM command reference.

2. Software setup

2.1. Starting the GUI

Once all connections are made and the module are powered, start the LoRaMiP GUI. At startup, it will scan available serial ports looking for connected devices. It is possible to connect multiple devices to the same PC.



Once the scan is finished, the serial ports with the module connected will be highlighted in green. To use one of the module, double click on the appropriate COM port.

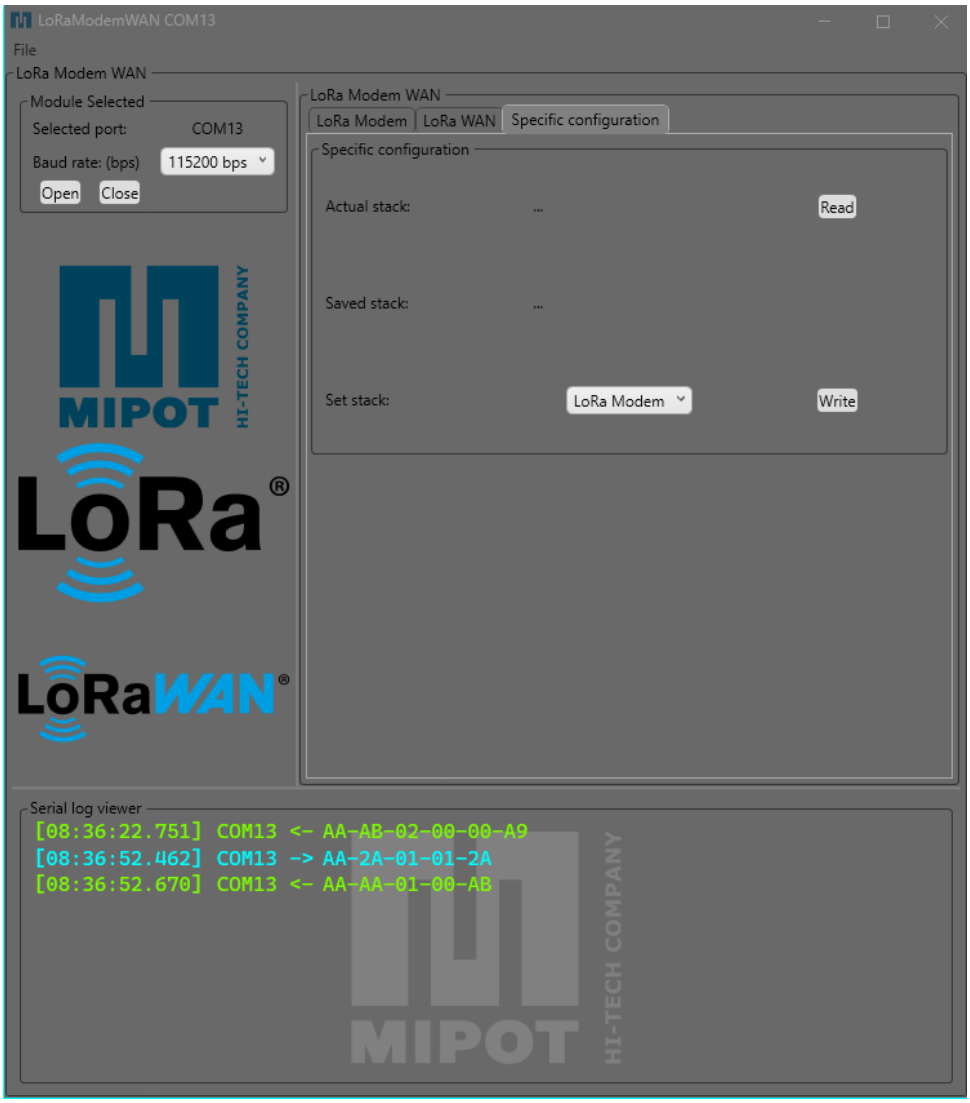
The view that will open is divided in 4 main zones:

1) Serial port control
2) Radio stack selection
3) Module configuration
4) Log of the messages exchanged on the serial port

In the log, the cyan text is about messages from the pc to the module and are indicated with an arrow pointed right, while the green messages are from the module and have an arrow pointing left.

2.2. Radio Stack Selection

By selecting one of the two tabs, titled as the name of the radio stack, the command to change the stack is automatically sent to the module and the view of section 3 (Module configuration) is changed. This radio stack configuration is temporary and is not saved in memory. So it would be lost in the next reboot and the configuration saved in memory would be loaded. To save the chosen configuration is necessary to select the tab called "*Specific configuration*".



By clicking the "*Read*" button, the loaded and saved configurations are shown. By selecting the desired configuration from the drop-down menu and pressing the "*Write*" button, the chosen radio stack is saved in memory and this configuration is maintained on subsequent reboots.

2.3. Module Configuration

Regarding the choice of parameters to be inserted in section 3, refer to the following documents based on the chosen radio stack.

Radio Stack	Document
LoRaModem	*UG_MOD001*
LoRaWAN	*UG_TTN001*
wM-Bus	*UG_WMB001*

3. Revision History

Revision	Date	Description
0.1	05.07.2024	First version
0.2	20.01.2025	Title changed Hardware setup removed
0.3	19.03.2025	References to wM-Bus added