

## **Overview:**

This document roughly describes how to use the SIGFOX-USB2-C with an Andoid phone to setup communication and send some data.

### Used equippment, tools and software:

- Samsung Note 10
- Android 11
- SIGFOX-USB2-C
- USB-C to USB-A Adatper
- App: Serial USB Terminal





### Install Terminal program:

Install application "Serial USB Terminal" V1.44 from Kai Morich from Google Play Store There is also some open source code availibale here: <u>https://github.com/kai-morich/SimpleUSBTerminal</u>

( usually any other terminal program being able to use the USB port should be usable )

#### **Phyiscal connection:**

Use a USB-C to USB-A adapter or adapter cable and connet it to the USB-C port of you cell phone. After that, connect the SIGFOX-USB2-C to the adapter.

Login in to your cell phone and it should recognize the dongle automatically and give you a proposal to start the "Serial USB Terminal" App.



Press ok and the terminal application will start.

Sigfox/SubGHz modules and development kits XoverIoT



#### **Terminal Settings**:

To properly communicate with the dongle the settings for the serial interface have to be set correctly.

The dongle uses 115200 Baud, no parity and 1 Stopbit. (115200,N,1) and CR+LF as termination.

Go to the settings tab and enter the appropriate settings.











### **Establish Connection:**

To connect to the dongle, you can select it from the List of USB Devices and press the connect symbol.





When the connection was successful, the symbol changes to conneted and there is a message displayed. To verify the connection you can use the AT command and the Dongle will respond with OK.





### Data Transmission:

To send data to the cloud, you can use all the commands known from the SIGFOX-MODx Sigfox Modems. See datasheet for all available commands:

https://www.xoveriot.com/wp-content/uploads/2021/08/DataSheet-SIGFOX-MOD1 2-SUBGHZ-MOD1 2-v1.7.pdf

Here are two examples of sending a bit value with AT\$SB=1 and sending a frame with AT\$SF=xxxx.

