MAXIIOT

LoRa Concentrator Card

GL5512 Quick Start Guild

Version: LoRa Concentrator_GL5512_Guild_V1.0.0

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Maxiiot Ltd.

Document Revision Record

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1. Required materials

- GL5512 LoRa Gateway board x1
- USB to MiniPCIE Socket x1
- UBUNTU PC x1

Note : The environment needs to use the entire Linux system to support, recommend the use of Ubuntu system, other Liunx system also can be achieved

2. Install and compile

2.1 You can download the open source code on Semtech official github:

$ git clone https://github.com/Lora-net/lora_gateway
$ git clone https://github.com/Lora-net/packet_forwarder

2.2 And compile and install dependcies：

Lora-gateway depends on libusb, libftdi1 and libmpsse, please install libusb-dev and libftdi1-dev:
$ sudo apt install libusb-dev libftdi1-dev
$ wget https://storage.googleapis.com/google-code-archive-downloads/ \
v2/code.google.com/libmpsse/libmpsse-1.3.tar.gz
Before complie,first install build root:
$ apt-get update
$ apt-get install -y sudo git-core subversion build-essential gcc-multilib \
libncurses5-dev zlib1g-dev gawk flex gettext wget unzip python
$ apt-get clean
Unzip libmpsse-1.3.tar.gz
$ tar -zxvf libmpsse-1.3.tar.gz
$ cd path-libmpsse-1.3
Patch the file attaching 110-ftdi1-fix-bug to libmpsse-1.3
$ patch -p0 < 110-ftdi1-fix-bug
$ cd src
$ ./configure
$ make
$ sudo make install

2.3 compile lora-gateway

$ cd lora-gateway
Patch the file attaching 110-lora-pkt-fwd-adapter to lora-gatewarder
$ patch -p0 < 110-lora-pkt-fwd-adapter
$ make
$ sudo make install

2.4 compile packet-forwarder

$ cd packet-forwarder
$ make
$ cd lora_pkt_fwd

3. TEST

3.1 Plug lora combine component to Ubuntu PC.

3.2 Copy packet-forwarder/lora_pkt_fwd/cfg/global_conf.json.XXXX.basic to the directory of lora_pkt_fwd execute file.

3.3 run command

$ chmod 0755 lora_pkt_fwd

$ ./lora_pkt_fwd