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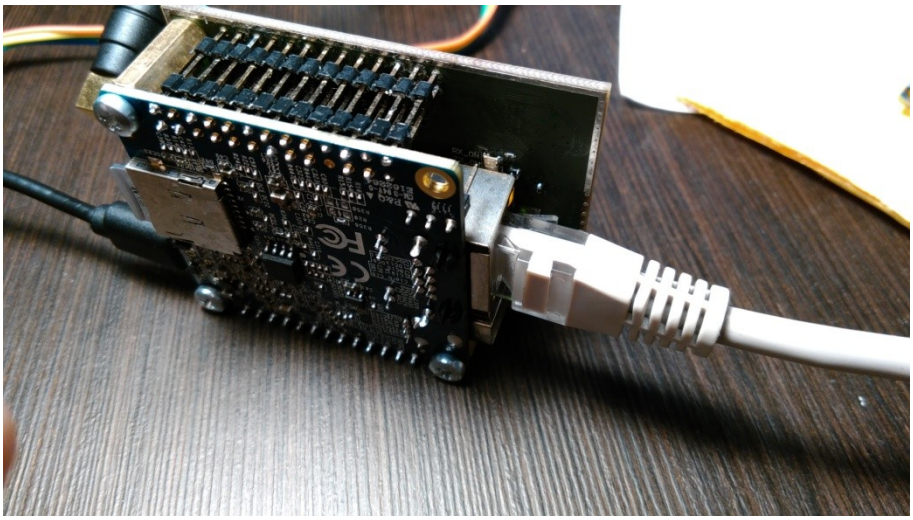
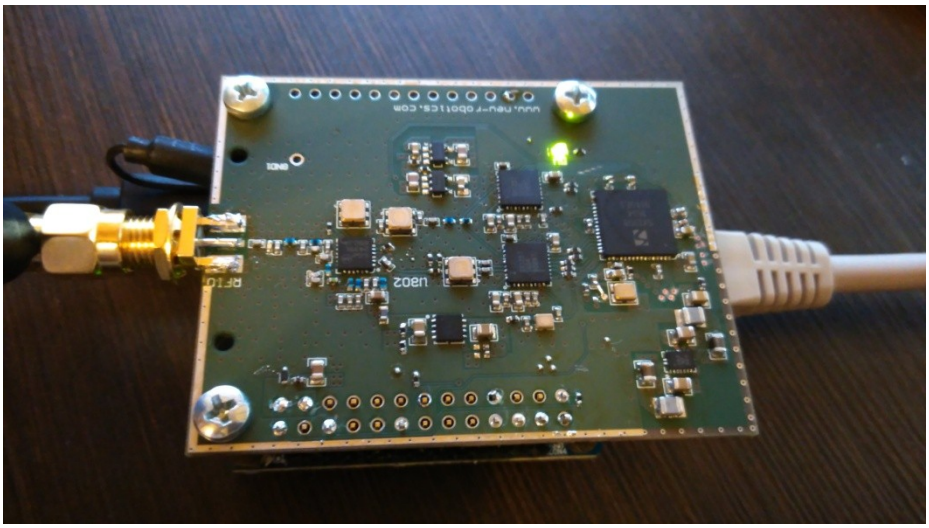
GW-08 openwrt getting started

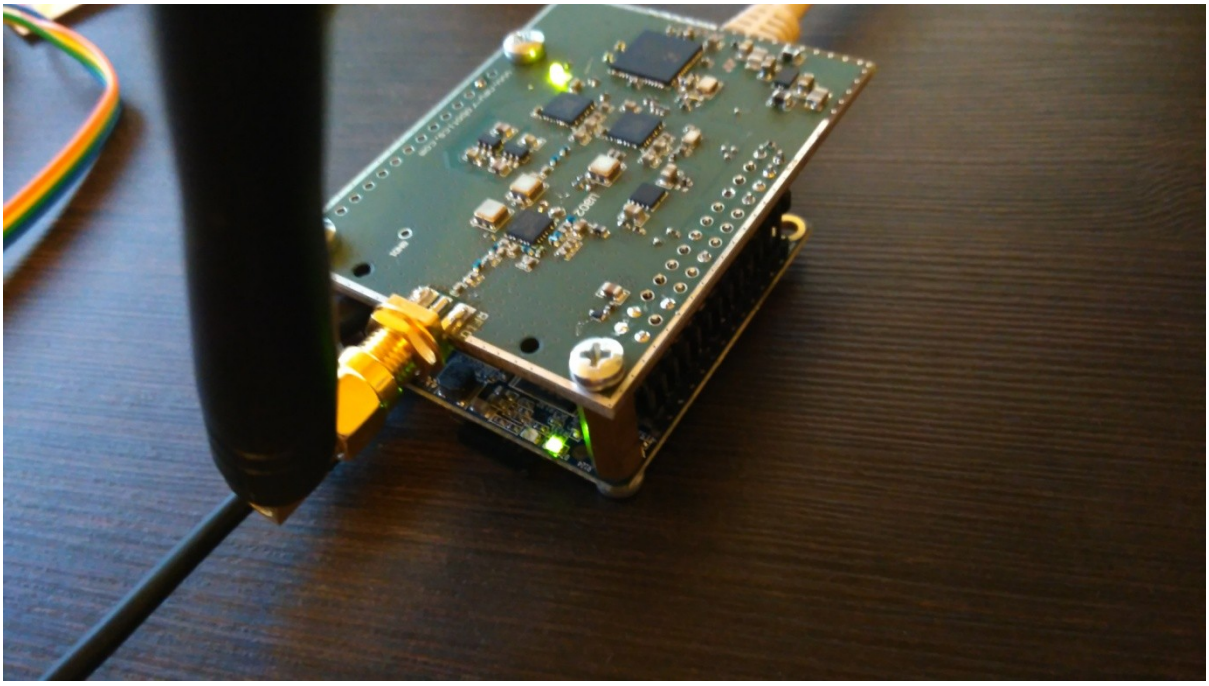
1. Connect ethernet cable to RJ-45 connector of OrangePi Zero board:



2. Power up the board using micro USB connector of OrangePi Zero board (see picture above). Don’t insert microSD card with Armbian image. Green led on the GW-08 board should start to light:



3. Wait until green led on the bottom board will starts to light also. It means that linux booted successfully and ip address taken using DHCP. Now you can connect to the device via ssh. Before that you need to check IP address of “Openwrt” device in a list of DHCP devices on you DHCP server:



192.168.100.1/index.asp

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Logout

Status | WAN | LAN | WLAN | Security | Forward Rules | Network Application | System Tools

- WAN Information
- VoIP Information
- WLAN Information
- Eth Port Information
- DHCP Information
- Optical Information
- Battery Information
- Device Information
- User Device Information
- Service Provisioning Status

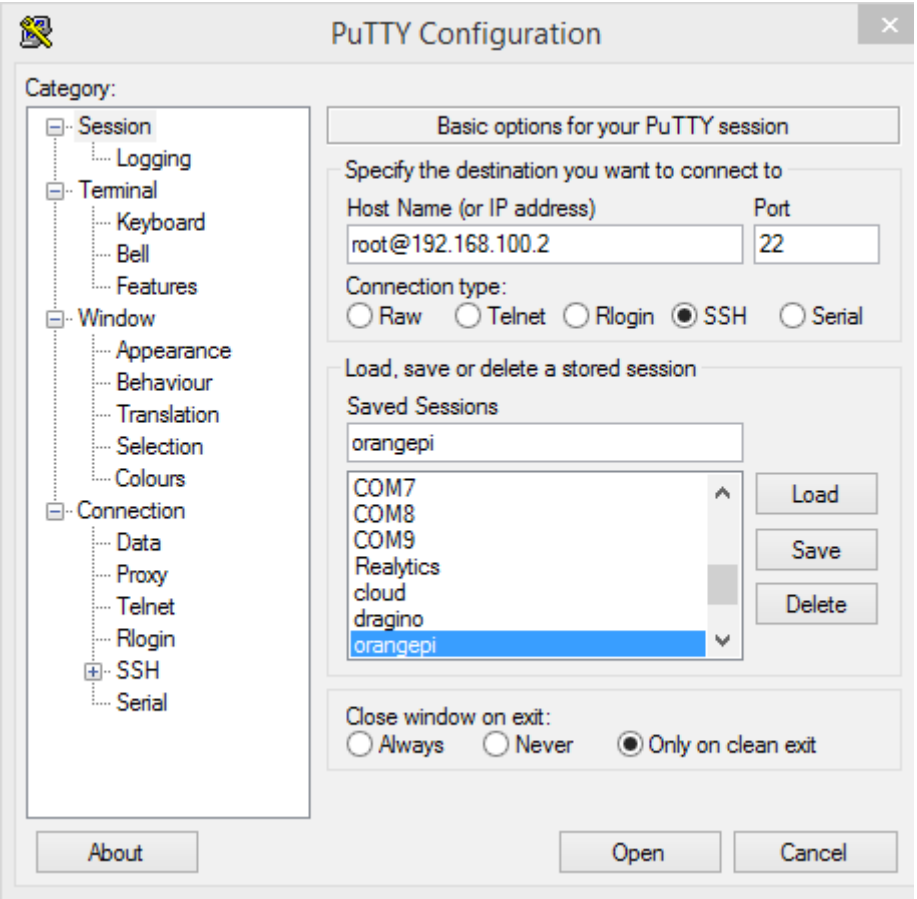
Status > DHCP Information

On this page, you can query the basic DHCP information, including the host name, IP address, MAC address, remaining lease time, and device type.

Total IP Addresses Number:	253
ETH IP Addresses Number:	9
WiFi IP Addresses Number:	3
Remaining IP Addresses Number:	241

Host Name	IP Address	MAC Address	Remaining Lease Time	Device Type
OpenWrt	192.168.100.2	9c:fc:01:d1:b6:ed	207567(s)	Computer
almaz	192.168.100.4	2c:d0:5a:50:88:c5	201060(s)	Computer
android-6aef4179dc18c01a	192.168.100.3	74:04:2b:d6:b7:10	111114(s)	Computer
pc	192.168.100.5	40:8d:5c:ee:ec:96	258758(s)	Computer

4. Connect via ssh. Login to connect is “root”. Password isn’t required:



5. Configure packet-forwarder by editing it’s global_conf.json file:

```
vi /etc/global_conf.json
```

To exist from Vi without saving the changes type “:q!”. To exist with changes saving type “wq” in Vi.

6. Start lorawan gateway:

```
/etc/init.d/lora_pkt_fwd start
```

To enable autostart on power up:

```
/etc/init.d/lora_pkt_fwd enable
```

To stop lorawan gateway:

```
/etc/init.d/lora_pkt_fwd stop
```

7. To view logs type following command:

```
logread
```

As there is SPI flash used to store OS, RAM based ring buffer implemented instead of stressing SPI flash by writing to log files in file system. As there is restrictions about code size (8Mb spi flash used) any additional programs like “util_tx_continuous” not added to distributive.