

## Running Armbian on GW-01.

### Download Armbian image.

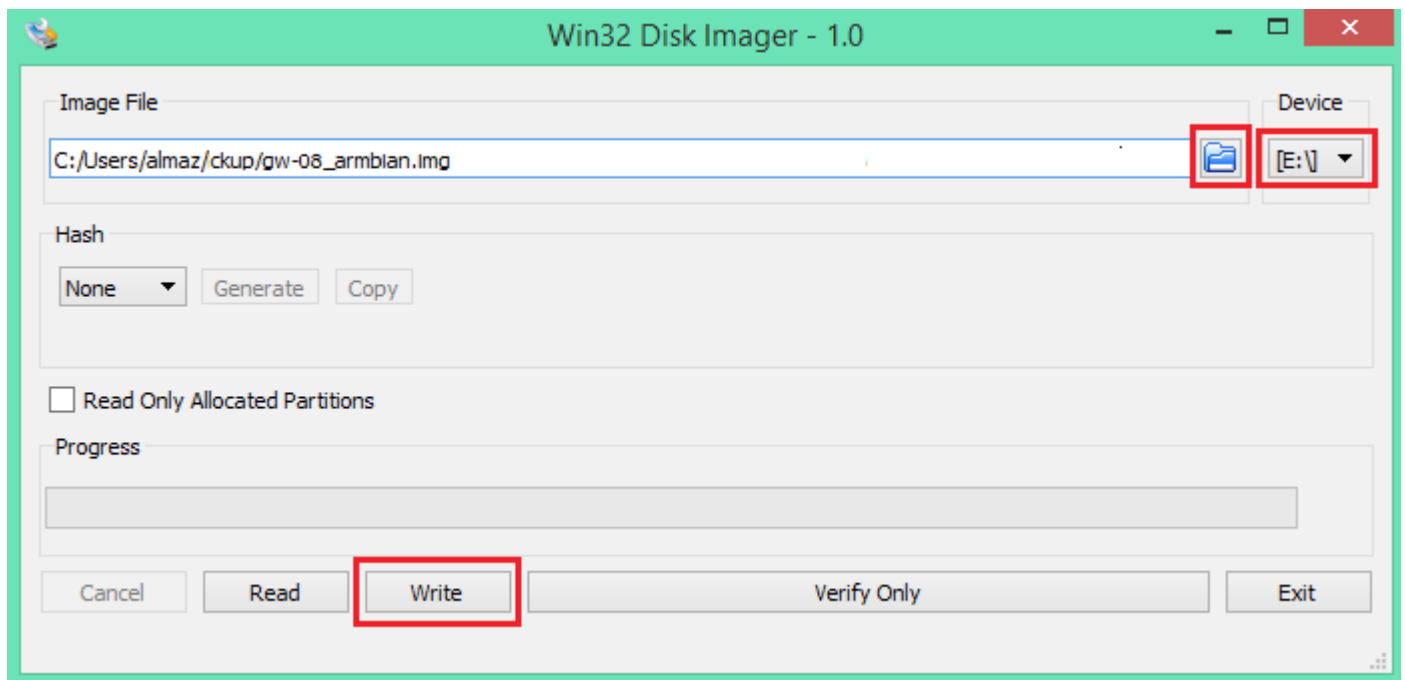
You can download armbian image for lorawan gateway GW-01 here:

[https://www.dropbox.com/s/rt92jdimeyvq5oq/gw-01\\_armbian.img?dl=0](https://www.dropbox.com/s/rt92jdimeyvq5oq/gw-01_armbian.img?dl=0)

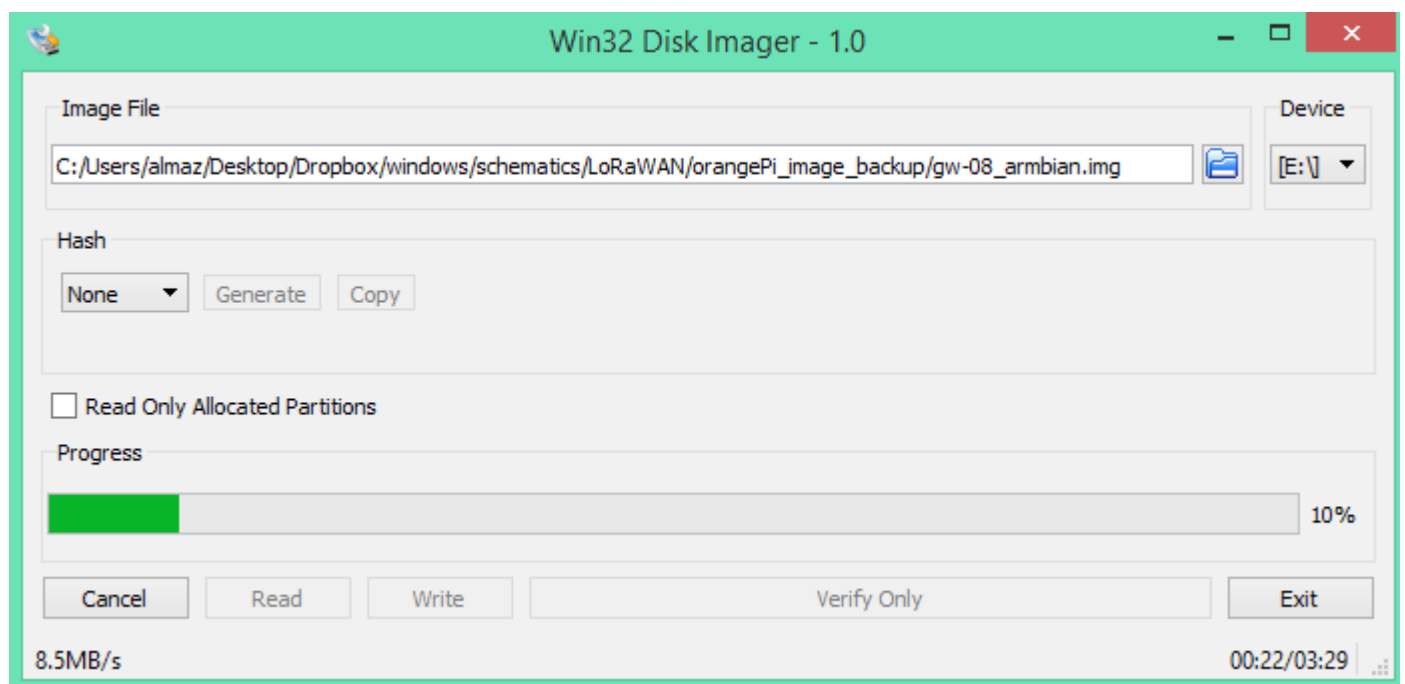
You need 2Gb or higher volume microSD card to boot Armbian from it.

### Writing image on microSD.

Use [Win32 Disk Imager](#) utility to write image on microSD card:



Here you need to choose device index, image file to write. Then press to Write button. Writing process takes few minutes:




After it finishes writing process plug in microSD card to GW-01 and power up the device.

## Remote connection.

Connect to device via SSH. Look for IP address of GW-01 on DHCP server for it. There is orangepzero device should appears in the list of devices:

192.168.100.1/index.asp

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**HG8245**

Logout

StatusWANLANWLANSecurityForward RulesNetwork ApplicationSystem 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:	8
WiFi IP Addresses Number:	4
Remaining IP Addresses Number:	241

Host Name	IP Address	MAC Address	Remaining Lease Time	Device Type
iPhone-Ajrat	192.168.100.2	9c:fc:01:d1:b6:ed	249002(s)	Computer
almaz	192.168.100.4	2c:d0:5a:50:88:c5	215257(s)	Computer
android-6aef4179dc18c01a	192.168.100.3	74:04:2b:d6:b7:10	255145(s)	Computer
al	192.168.100.5	40:8d:5c:ee:ec:96	256987(s)	Computer
<u>orangepzero</u>	<u>192.168.100.8</u>	02:42:e9:be:89:83	259187(s)	Computer

Then login via SSH using login/pass: al/orawan1:

**PuTTY Configuration**

×

Category:

- Session
  - Logging
- Terminal
  - Keyboard
  - Bell
  - Features
- Window
  - Appearance
  - Behaviour
  - Translation
  - Selection
  - Colours
- Connection
  - Data
  - Proxy
  - Telnet
  - Rlogin
  - SSH**
  - Serial

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address)al@192.168.100.8Port22

Connection type:

☐ Raw☐ Telnet☐ Rlogin☒ SSH☐ Serial

Load, save or delete a stored session

Saved Sessions

orangepi

COM7COM8COM9Realyticsclouddraginoorangepi

LoadSaveDelete

Close window on exit:

☐ Always☐ Never☒ Only on clean exit

AboutOpenCancel

After entering to console of GW-01 you ready to start GW-01 to receive incoming LoRa packets.

## Running the gateway.

Run this at every power up of gateway:

```
cd ~  
sudo ./iC880-SPI_reset.sh  
sudo chmod 777 /dev/spidev1.1  
cd packet_forwarder/lora_pkt_fwd  
./lora_pkt_fwd
```