Aitek Hardware Specs for Helium Audit

1. Label your hardware clearly with your company name
Aitek Inc. (The company logo is printed on the gateway device)

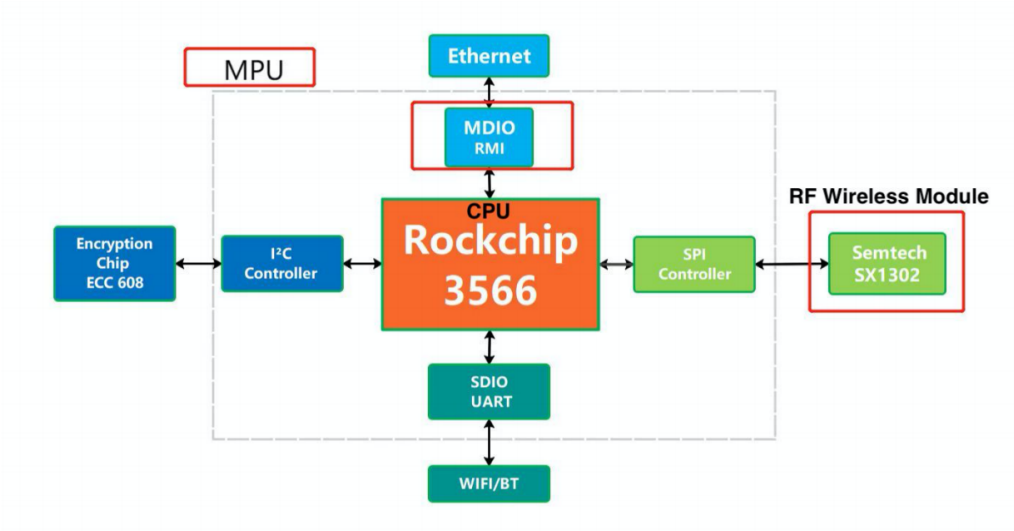
2. In the document, include a note with the countries to sell in and radio certifications you intend to get
- **Country we are planning to sell initially is USA**
- **Radio certification we intend to get: FCC US915**
- **FCC Certification is expected by mid-March.**

3. Confirm that your HIP19 proposal matches the hardware and related documentation that you sent for audit.
Confirmed

4. In the document, specify if this is a Full or Light Hotspot we are auditing.
Light Hotspot

5. In the document, specify if this is an indoor or outdoor Hotspot we are auditing.
Indoor.
a. If you have sent only an indoor hotspot, do you expect to make an outdoor hotspot later? **Yes, later.**
b. If you have sent only an outdoor hotspot, do you expect to make an indoor hotspot later? **N/A**

6. Provide a block diagram and clearly label the location of the security implementation (ECC chip or TrustZone etc). A block diagram is a diagram of your system with CPU/ MCU, memory, ECC/ other security etc.
All the parts in your circuit should be clearly labeled with part numbers:



7. What i2c bus on the Linux device tree is the ECC connected to? (manufacturer should provide location of i2c eg: i2c-1, i2c-0)
I2c-1

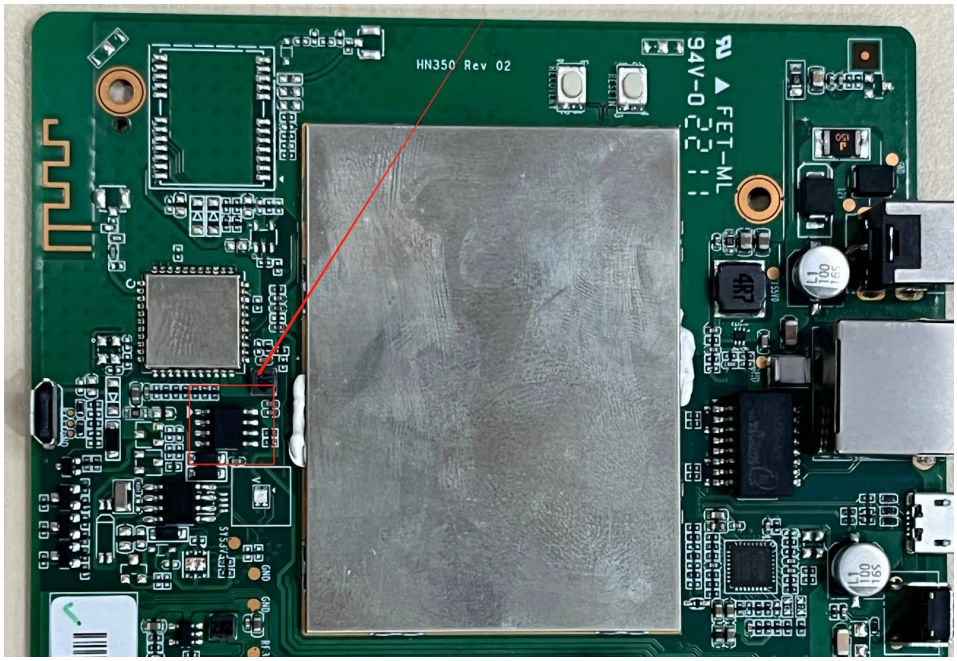
8. Provide instructions for SSH or Terminal access
Connection method (Connection is similar to regular Linux devices)
- **Power up Aitek hotspot, connect hotspot to router using ethernet cable.**
- **Locate the IP address of the device through the router device**
- **Note: you can find the IP address through host name.**
    - **The current host name is: localhost**
    - **The mac address is printed on the device label.**
- **Once IP address is found, link to the device through ssh after obtaining the IP.**
    - **Username: admin**
    - **Password: MIGcAkEAu86vzNGz8uFDQB67eAyY**

9. Provide directory of packet forwarder and global_conf.json
LoRa packet forwarder program path: /usr/bin/lora_pkt_fwd_1302
LoRa packet forwarder program configuration file path: /update/cfg/global_conf_1302.json

10. Provide instructions for stopping and starting Packet Forwarder
Start miner:/etc/init.d/lora-sx1302.sh start
Stop miner:/etc/init.d/lora-sx1302.sh stop

11. Provide location of packet forward configuration file (global_conf.json)
Location : /etc/lora_config/

12. Provide sketch or photo indicating the location of security module (if applicable)



13. Explain the OTA/firmware update process. Show the process by which firmware updates are cryptographically verified.
The OTA update process is as follows:
• The server pushes the encrypted message to the device
• After the device receives the encrypted message, it parses the update package url and version number and other information contained in the message
• Download the update package and decrypt it
• Update and install after decrypting the update package

14. Is there a dashboard or other interface on the hotspot that allows it to be controlled over the network? If yes, this dashboard must require a password or other secure token to access. This password must be unique per device and sufficiently random so as to not be guessable.
No

15. The hotspot should have production-ready firmware, including an over the air (OTA) update process for the miner.
Yes