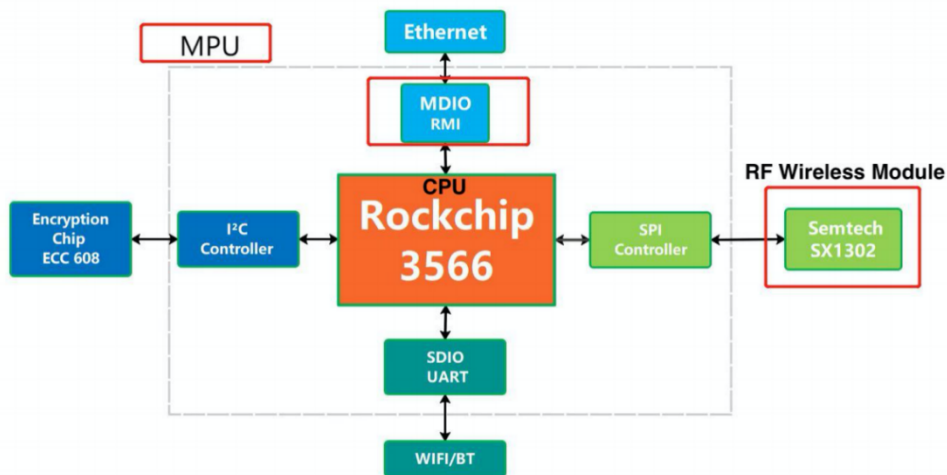


## *Aitek Hardware Specs for Helium Audit*

1. Label your hardware clearly with your company name  
**Aitek Inc.** (The company logo is printed on the gateway device)
2. What is the model name of your hotspot?  
AML-300
3. Include a link to your HIP19 proposal in your document.  
[https://github.com/dewi-alliance/hotspot-manufacturers/blob/main/applications/Aitek\\_Light-Hotspot.md](https://github.com/dewi-alliance/hotspot-manufacturers/blob/main/applications/Aitek_Light-Hotspot.md)
4. Confirm that your HIP19 proposal matches the hardware and related documentation that you sent for audit.  
**Confirmed**
5. In the document, specify if this is a Full or Light Hotspot we are auditing.  
**Light Hotspot**
6. 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-May**
7. 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**
8. 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:



9. 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**

10. 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 the host name.
  - o The current host name is: localhost
  - o The mac address is printed on the device label.
- Once IP address is found, link to the device through ssh after obtaining the IP.
  - o Username: admin
  - o Password: MIGcAkEAu86vzNGz8uFDQB67eAyY

11. Provide the path to the gateway-rs executable (ie: helium\_gateway)  
**/usr/bin/helium\_gateway**

12. Provide the architecture / distribution that your CPU is using.  
**aarch64-unknown-linux**

13. If using the ECC608 as security element, provide the key slot and bus address  
key slot:0  
bus address:96

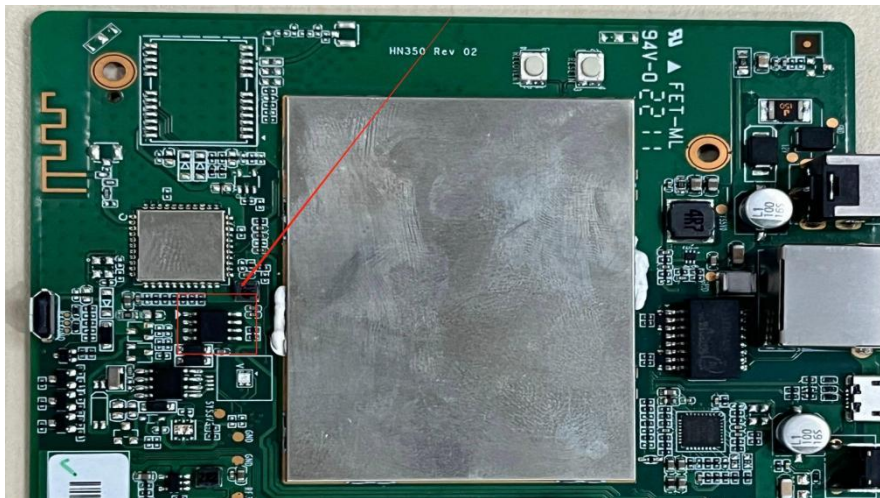
14. gateway-rs must automatically update; the auditor shall not update your firmware for you. Upon power up, is gateway-rs running and ready to audit?

**Yes**

15. Are you using Helium's gateway-rs updater?

NO

16. Provide instructions for stopping and starting gateway-rs (ie: helium\_gateway)  
**Start gateway-rs:/etc/init.d/gateway-rs.sh start**  
**Stop gateway-rs:/etc/init.d/gateway-rs.sh stop**
17. 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**
18. Provide instructions for stopping and starting Packet Forwarder  
**Start Packet Forwarder:/etc/init.d/lora-sx1302.sh start**  
**Stop Packet Forwarder:/etc/init.d/lora-sx1302.sh stop**
19. Provide location of packet forward configuration file (global\_conf.json)  
**Location : /etc/lora\_config/**
20. Provide sketch or photo indicating the location of security module (if applicable)



21. 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
22. 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**

23. The hotspot should have production-ready firmware, including an over the air (OTA) update process for the gateway-rs.

**Yes**

24. In the document, include a note with the radio certifications you intend to get, and the dates expected.

FCC 5/20

IC 6/2

CE 5/23

UKCA 5/31

25. Are you deploying in a frequency that requires Listen Before Talk or Listen Before Transmit?

**NO**

26. Are you selling AU915 gateways?

**NO**

27. For FCC please provide your FCC ID number as well as the certificate.

Will submit soon

28. Have you read Helium's PoC FCC guidelines before you sent to the lab?

Yes

29. Are you aware that the Helium app will not be available for customer use after 2/28/22?

Yes

30. Has your team created a Maker App for customers to onboard?

Yes