

End Device

장비 구성

- Lora Node 151
- ST-LINK/V2

CoAP

UDP

IPv6

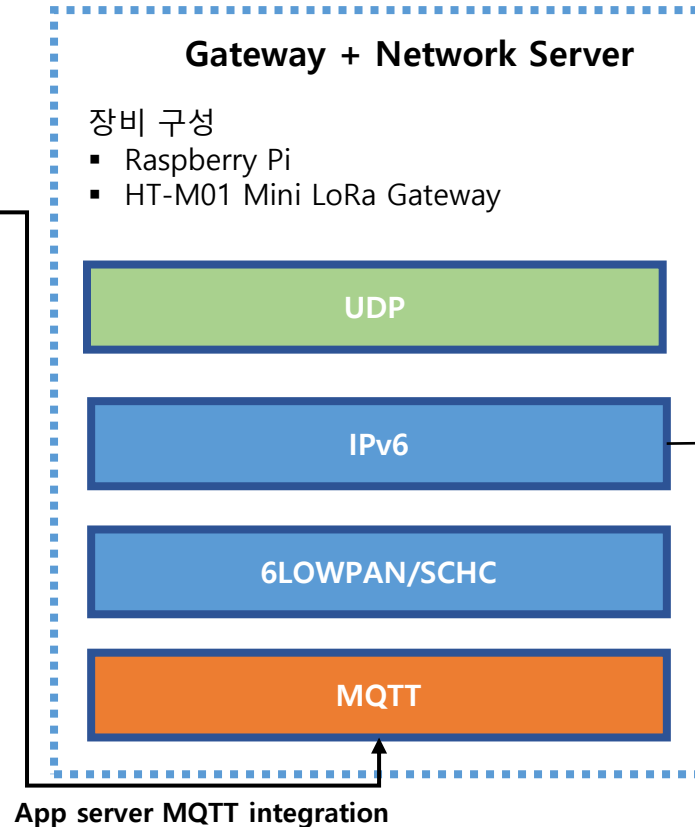
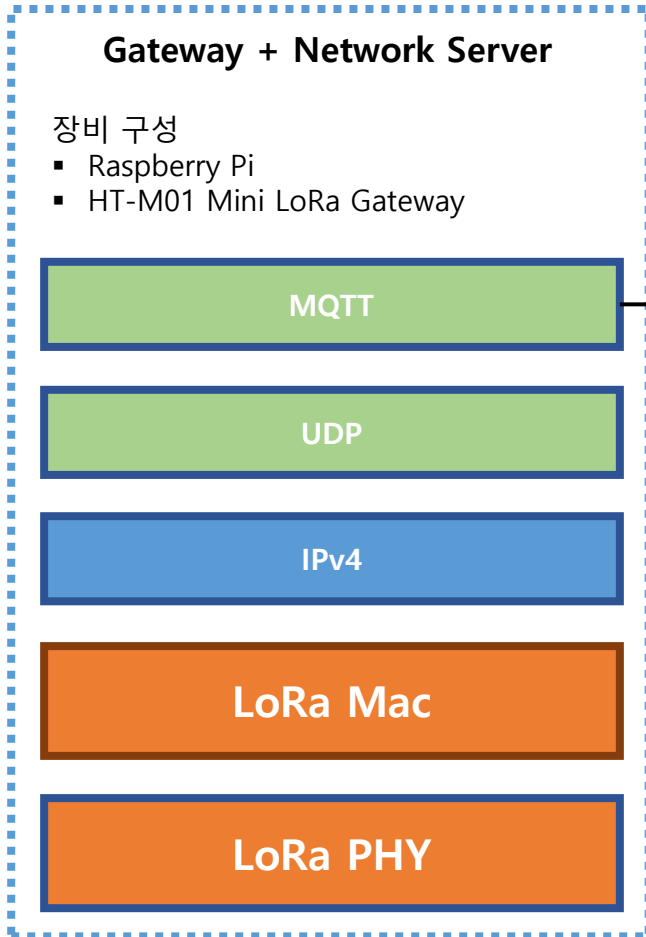
6LOWPAN/SCHC

LoRa Mac

LoRa PHY

장비

- LoRa Node 151(<https://heltec.org/project/lora-node-151/>)
컴퓨터와 USB를 통한 펌웨어 다운로드 방법
 - https://heltec-automation-docs.readthedocs.io/en/latest/stm32/lora_node_151/download_firmware.html
- IPv6-over-LoRaWAN 오픈 소스
- <https://github.com/aenrbes/IPv6-over-LoRaWAN>
- CoAP/DTLS 설치 오픈소스
- <https://github.com/obgm/libcoap>



장비

- HT-M01 Mini LoRa Gateway(<https://heltec.org/project/ht-m01/>)

게이트웨이와 라즈베리파이 usb로 연결하기

- https://heltec-automation-docs.readthedocs.io/en/latest/gateway/ht-m01/qucik_start.html#usb-mode

ChirpStack 설치

- <https://www.chirpstack.io/gateway-bridge/>
- <https://www.chirpstack.io/network-server/>
- <https://www.chirpstack.io/application-server/>



ChirpStack 설정

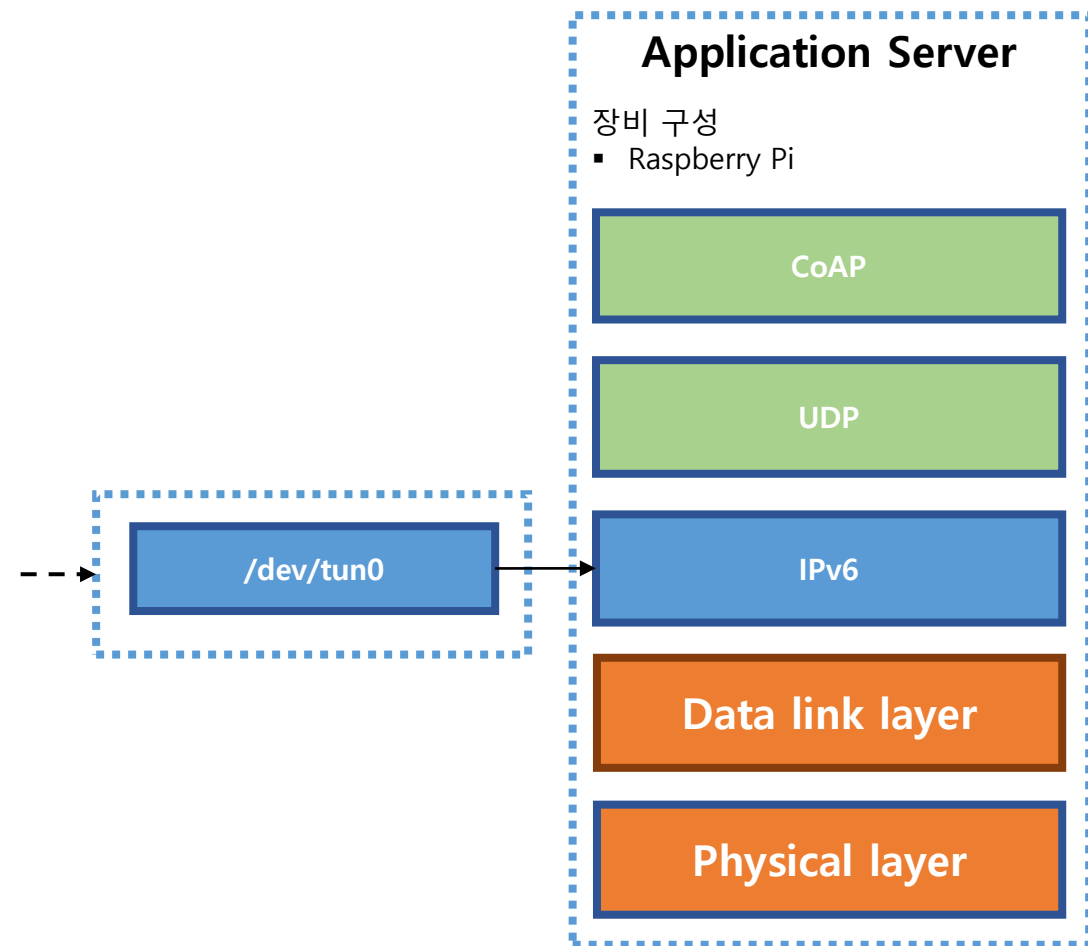
- <https://www.chirpstack.io/project/guides/connect-gateway/>

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