

Deploying an End-to-End LoRaWAN Platform

Starting from September 2016, Saint-Joseph University of Beirut (USJ) will be deploying the first academic LoRa network in Lebanon. The network will support monitoring of micro-climate conditions in vineyards. Here below you can find a detailed description of the experimental platform implementing an end-to-end LoRaWAN solution.

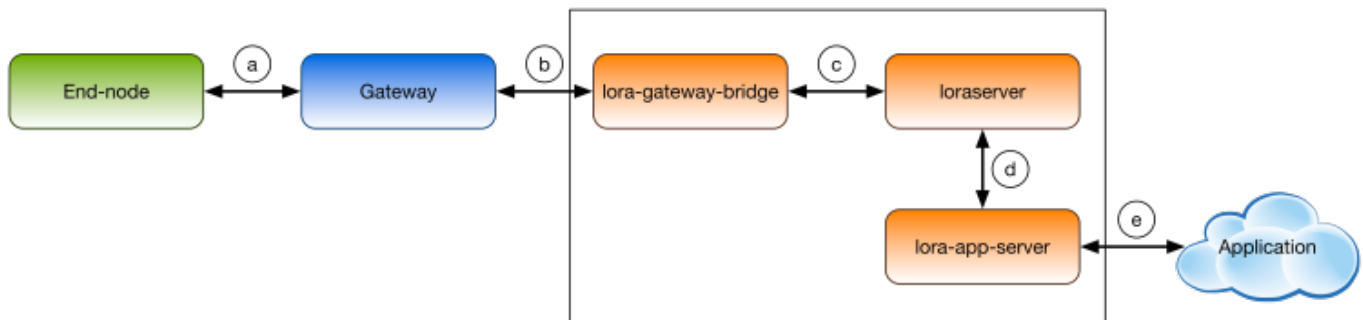


Figure 1. Architecture of the LoRaWAN Platform

- End-nodes

- Autonomo with LoRaBee

- Arduino with Dragino Shield

- Gateways

- Single Channel Gateway

The single channel gateway includes a LoRa transmission module (the Dragino Shield) connected to a Raspberry Pi (2 or 3). [Figure 2. }}](#)

- Kerlink IoT Station

- Backend

- Loraserver

- The Things Network

- Applications

- MQTT spy

- Emoncms

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