SIGMA

08. LORAWAN CLOUD TRAINER

MODEL- LORA-CLOUD100

SPECIFICATIONS

This software has been designed with a view to provide practical and experimental knowledge of setting LoRaWAN cloud server for LoRaWAN Gateways.

SPECIFICATIONS

A. Main Specs

1. Integrated LPWAN Network and Application Server with unified network management and application handling.
2. Web Application and Android Mobile Application to visualize the Sensor Data and to control the actuators
3. Supported a Wide range of Technologies including LPWAN, MQTT, and HTTP
4. Long-Range IoT Device Class Support: Class A & Class C
5. Long-Range IoT Activation Method Support: ABP & OTAA
6. Cloud Hosted with data security, and internal protocol adherence.
7. Multi-channel notifications (E-Mail & Mobile App etc.) for efficient critical information dissemination.
8. Versatile data export (Excel, CSV, PDF) for seamless data use across business processes.
9. Real-time device monitoring and control through intuitive dashboards.
10. Scheduled and data-driven automated downlink to the devices.
11. Streamlined device and gateway management for registration, administration, and oversight.
12. Proactive gateway status alerts for quick responsiveness to changes.
13. Communication failure alerts for proactive intervention and maintenance.
14. Application Specific data analytics dashboards.
15. User-friendly widgets visually represent contextual device application data.
16. 1 Year validity

EXPERIMENTS

1. To purchase Domain Name
2. To purchase Server Hosting
3. To purchase Plesk panel
4. To install Centos Operating System and Plesk panel
5. To run LoraWAN cloud software to make LoRaWAN cloud using Docker and Container
6. To setup and configure LoRaWAN Cloud Server
7. To send live Sensors Data between two Arduino Lora Shield using Peer-to-Peer Lora Communication
8. To send live Sensors Data between two Lora USB Modules using Peer-to-Peer Lora Communication
9. To send live Sensors Data to LoRaWAN Cloud and View on Website Page Dashboard
10. To send live Sensors Data to LoRaWAN Cloud and View on Android Mobile App
11. To send live Sensors Data to LoRaWAN Cloud and save on MySQL Cloud Server and then store and export it in xls file
12. To send Sensors data to Local Host Server, store and export it in xls file
13. To send Sensors data to Local Host Server and Display on website html page

Contact us

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