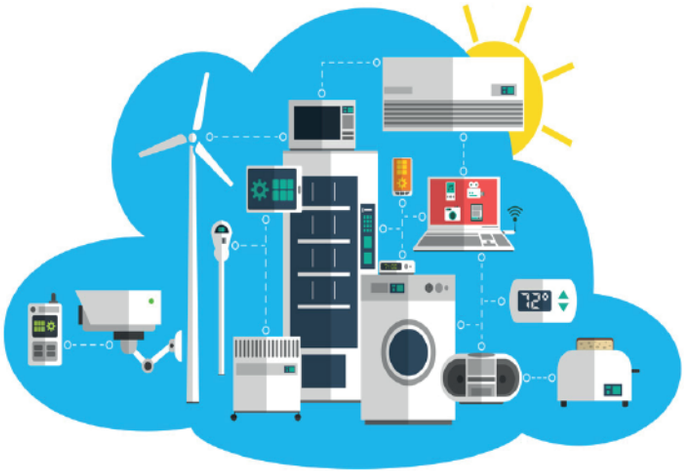
OmniSense

OMNI**Sense** - LoRa based comnunication solutions



What is LoRa (Long Range)?

LoRa is a new energy-efficient long-range wireless technology that has been developed to utilize low data rate communications over long distances by sensors and other battery-powered devices. Connecting millions of devices (M2M) to local, regional, national and international networks.

Features

Contrary to Wi-Fi and 4/4.5G wireless networks, LoRa is able to send secure data to longer range with less power. Data transmission range varies from 3-5km (urban) to 15km (rural). Bi-directional transmission allows both sensor reading and remote control of devices at the same time.

Usage

Smart city applications, agricultural and irrigation tracking/control, long range remote controlling, smart homes, sensor network management.

01

Low power consumtion and operating costs that don't require Wi-Fi or SIM cards.

02

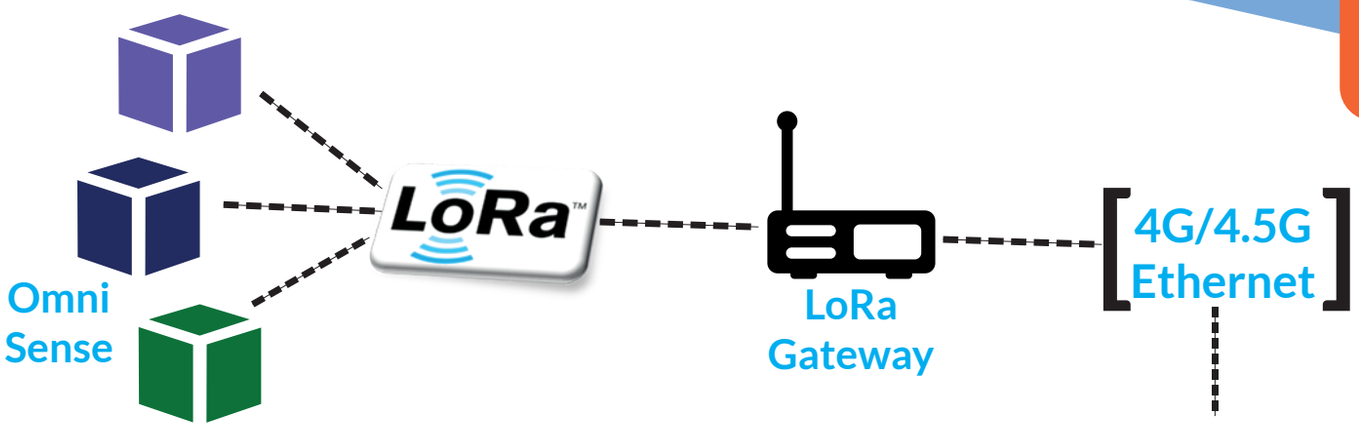
Being able to operate ~5 years with AA batteries.

03

Connected devices over a secure network.

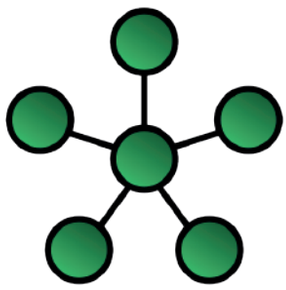
04

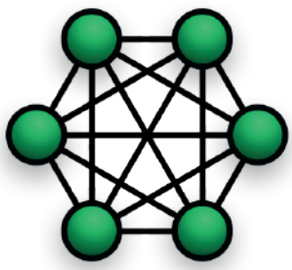
Data collection and dissemination to thousands of devices by mesh topologies.



General Specifications

- Sensors
  - Temperature, Humidity
  - Motion
  - Barometric pressure
  - Object move
  - Gyro/acceleration
- Casing for environmental conditions
- Star and mesh type networks
- Data capacity (0.3 kbps - 22kbps)
- Battery Life (AA ~5 years)
- Distances up to 15 km
- 433/868 MHz (Europe), 915 MHz (N. America)





SIGUN

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