

“Your **Beginners Kit** to Quickly learn and develop LoRa[®] and IoT Technology”



Overview

thing Z kit[®] Pro is designed to facilitate beginners and developers to quickly learn LoRa[®] and IoT technology. It help users to turn the idea into a practical application and make the Internet of Things a reality. It is easy to program, create and connect your things everywhere. A number of telecom operators are currently rolling out networks, but because LoRa[®] operates in the open spectrum you can also set up your own network.

SPECIFICATIONS & FEATURES

Onboard MCU

- Arduino Uno

Multiple Onboard Embedded Communication Protocol

- I2C
- SPI
- UART

Programming Examples

- Arduino Programming

Tools Required

- Arduino IDE

Features

- Semtech SX1276 LoRa[®] IC
- LoRa[®] Expansion board direct Compatible with Arduino Uno
- Interface with Arduino Uno
- Suitable for LoRaWAN[®] or Peer to Peer LoRa[®] Protocol
- Compatible with 3.3V or 5V GPIO Pin Arduino Board
- Frequency Band: IN865
- Low power consumption
- External Antenna via SMA Female connector
- Open-Source LMIC Library
- LoRaWAN[®] Class A Support
- LoRaWAN[®] Activation Mode Support: ABP & OTAA

LPS8N Multi-Channel LoRaWAN[®] Gateway

LoRa[®] Specification

- SX1302 + 2 * SX1250 LoRa[®] Transceiver

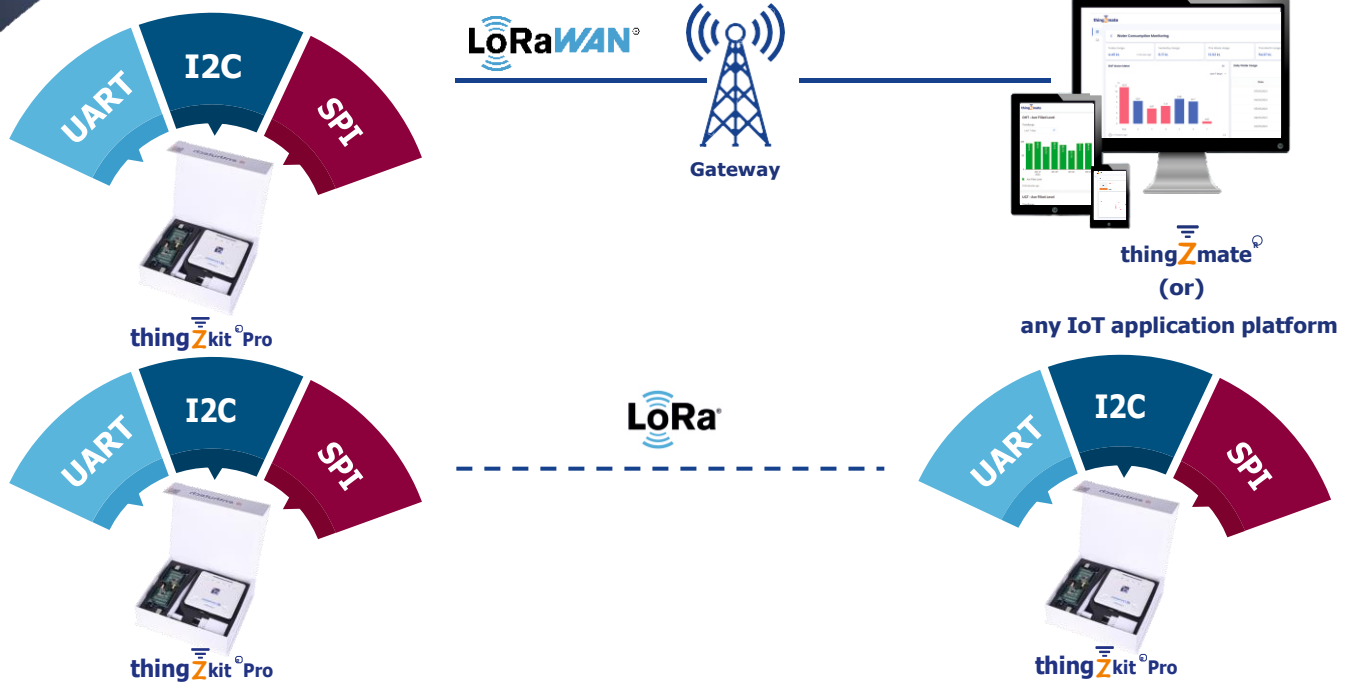
General Specification

- 10M/100M RJ45 Ports x 1
- 1x 2.4G WiFi (802.11 bgn)
- 1x USB host port
- Power Input via USB Type-C: 5V, 2A

Package Includes

- 1x LPS8N Multi-Channel LoRaWAN[®] Gateway
- 2x (LoRa[®] Shield + Antenna + Arduino UNO + USB Cable)
- 1x Flame Sensor
- 1x Relay Module
- 1x Photosensitive Sensor
- 1x Buzzer
- 1x Ultrasonic Sensor
- 5x LED (White)
- 1x DHT11 Temperature and Humidity Sensor
- 10x dupont wire (Male to Male)
- 10x dupont wire (Female to Female)
- 10x dupont wire (Female to Male)

SYSTEM ARCHITECTURE



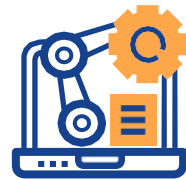
BENEFITS



Project & POC's



Incorporate your Ideas



Develop Industrial
Standard Applications



Enhancing Student
Innovations



Meet Current Industry
Standards



Bridge the gap between
Industry & Academy

Dimension	240 * 202 * 70 mm (9.449 * 7.953 * 2.756 Inches)
Enclosure Material	Rigid Box
Enclosure Color	White
Product Weight	1 Kg
Power Supply	5V USB Power



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📍 PMR Layout, Goldwins, Coimbatore – 14.

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