thingZkit® Lite

"Your IoT kit with **advanced on-chip LoRa® module** for research and development"

Overview

Unlock the potential of embedded technology with thingZkit® Lite – the NextGen Hub designed for seamless and reliable connectivity. With versatile built-in embedded protocols, including the cutting-edge LoRaWAN® wireless protocol, this kit empowers you to learn new protocols and gain invaluable embedded knowledge. Whether you're a seasoned developer or a curious beginner, thingZkit® Lite offers the perfect platform to explore the possibilities of embedded technology and take your skills to the next level. Get started today and unlock a world of possibilities with thingZkit® Lite.

SPECIFICATIONS & FEATURES

Onboard MCU

- STM32WLE5CC

Multiple Onboard Embedded Communication Protocols

- I2C
- SPI
- UART
- Rs485
- RS232

Onboard Wireless Communication Protocol

- LoRaWAN®

Programming Examples

- Embedded C Programming

Tools Used

- STM32 Cube IDE
- STM32 Cube Programmer
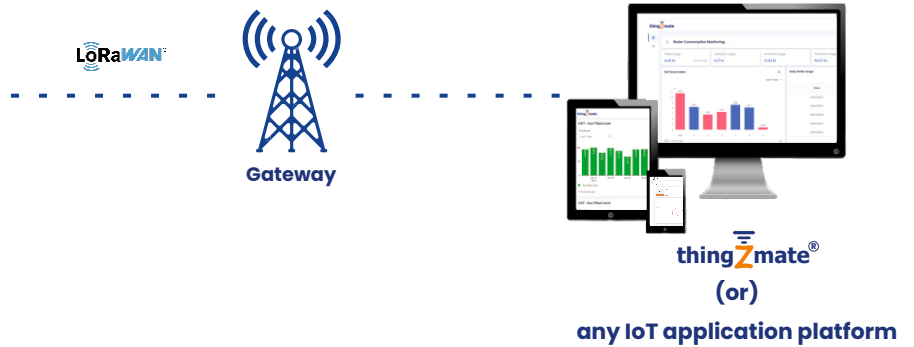- Serial Port Utility
- Cube MX

On-Board Features

- 1x Relay
- 0-10V PWM Output
- Digital GPIO
- Analog GPIO
- USB to UART Converter
- 3x External 12V Interrupt Pin

External Accessories

- M-M Jumper Wires (Bunch of 20)
- M-F Jumper Wires (Bunch of 20)
- F-F Jumper Wires (Bunch of 20)
- RS232 Cross-Over Cable
- RS232 Straight Cable
- RS232 Male to RS232 Female Converter
- 12VDC Power Adaptor
- 3 Core Shielded Cable 1 meter for RS485
- RS485 to USB Converter
- RS485 to UART Converter
- USB Type A Male – USB Type A Male Cable
- General Sensors:
  - IR Sensor
  - Ultrasonic Sensor
  - Soil Moisture Sensor
  - Stepper Motor
  - Servo Motor

SYSTEM ARCHITECTURE

UART
I2C
SPI
RS232
RS485

thing**Z**kit® Lite

LoRaWAN™

Gateway

thing**Z**mate®
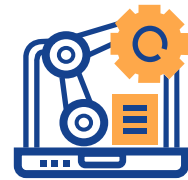**(or)**
any IoT application platform

BENEFITS

R & D

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	12VDC 2A

**Free access to
thing**Z**mate® IoT
Platform for 2 years!**

#enthutech | www.enthutech.in | www.thingzmate.com

✉ eas@enthutech.in | iotsupport@enthutech.in

📞 +91 70944 70844, +91 99407 07197

📍 #88 & 89, SSN Square, Peelamedu Pudhur, Coimbatore - 04.

LoRaWAN® is a mark used under license from the LoRa Alliance®