thingZkit® Elite

"Your seamless package to learn **Multiple MCU, Embedded protocols & Wireless communication** to become an Industry Ready Engineer"

Overview

thingZkit® Elite is an all-in-one experimenting platform to experience the IoT applications. It's packed with state-of-the-art sensor technology and ready-to-use software applications, capable of fulfilling all your IoT application needs.

SPECIFICATIONS & FEATURES

Multiple Onboard MCU

- STM32WLE5JC
- ESP32

Multiple Onboard Embedded Communication Protocols

- I2C
- SPI
- UART
- RS485
- RS232
- CAN (For ESP32 only)
- Analog IO, 0-30V & 4-20mA
- Multi Functional GPIO

Multiple Onboard Wireless Communication Protocols

- Bluetooth
- BLE
- Wifi
- Zigbee
- LoRaWAN®
- GSM / NB-IoT (optional)

Programming Examples

- Embedded C Programming
- Arduino Programming

Tools Used

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

On-Board Features

- 3x RGB LED
- 2x Push Button
- 2x Slide Switch
- 1x Buzzer
- 1x TFT Display
- 2x Relay
- 1x SHT31 Temperature & Humidity Sensor
- 0-10V PWM Output
- Digital GPIO
- Analog GPIO
- USB to UART Converter
- Mini Breadboard 2 No's

External Accessories

- M-M Jumper Wires (Bunch of 40)
- M-F Jumper Wires (Bunch of 40)
- F-F Jumper Wires (Bunch of 40)
- RS232 Cross-Over Cable
- RS232 Straight Cable
- RS232 Male to RS232 Female Converter
- 12VDC Power Adaptor
- 4-20mA & 0-10V Signal Generator
- Energy Meter with RS485 Output
- 3 Core Shielded Cable 1 meter for RS485 / CAN
- 24W Dimmable Street Light with 0-10V PWM Control Input
- RS485 to USB Converter
- RS485 to UART Converter
- **General Sensors:**
  - IR Sensor
  - Stepper Motor
  - Ultrasonic Sensor
  - Servo Motor
  - Soil Moisture Sensor
  - Multimeter

SYSTEM ARCHITECTURE

I2C
SPI
CAN
UART
RS232
RS485
LoRaWAN®
NB-IoT
BLE
Wi Fi
ZigBee®

thingZkit Or Elite

Gateway

thingZmate©
(or)
any IoT application platform
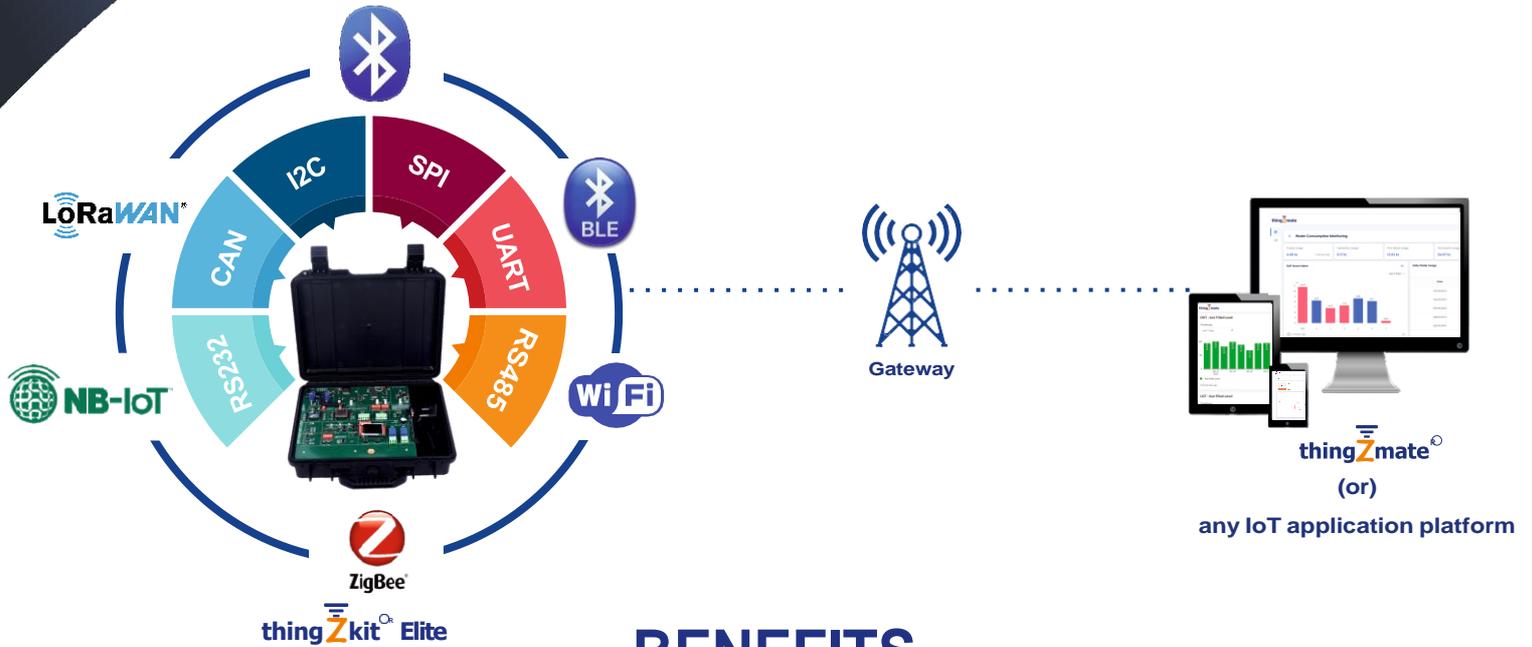
BENEFITS

Learn 100+ Experiments

Incorporate your Ideas
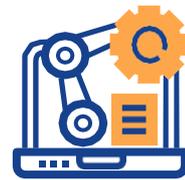
Develop Industrial
Standard Applications

Enhancing Student
Innovations

Meet Current Industry
Standards

Bridge the gap between
Industry & Academy

Dimension	359 * 305 * 99 mm (14.13 * 12.01 * 3.90 Inches)
Enclosure Material	Polypropylene
Enclosure Color	Black
Product Weight	2.240Kg
Power Supply	12VDC 2.5A

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📍 PMR Layout, Goldwins, Coimbatore - 14.

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