



**"Empower practical learning with thingZkit IoT PRO
 MultiMCU IoT Kit - Microcontrollers, Sensors, and Wireless
 modules for Hands-on Exploration."**

Overview

This hardware toolkit offers an exceptional educational resource, enriching practical learning experiences for students. The kit boasts powerful microcontrollers, including the Raspberry Pi Pico W and Arduino Uno, complemented by an array of sensors, buttons, displays, and wireless modules. Its primary purpose is to facilitate hands-on exploration of Internet of Things (IoT) concepts. With capabilities encompassing cloud access, Bluetooth, Wi-Fi, Zigbee, LoRaWAN[®] and GSM support, this toolkit empowers students to experiment and gain insights into contemporary technologies. Notably, its durability and alignment with the Anna University curriculum render it a highly advantageous choice for effective learning.

Microcontroller

- Arduino Uno
- Raspberry Pi Pico W
- Raspberry Pi 4
- Provision to Interface Rpi4 / Rpi3 externally

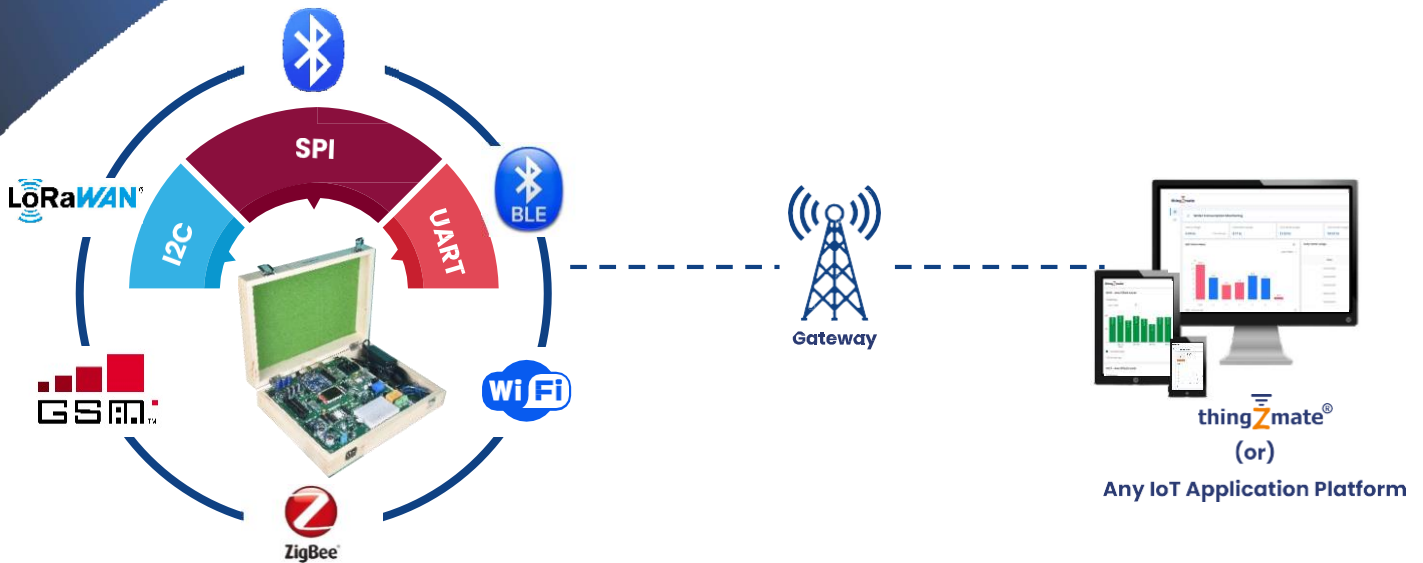
Key Highlights

- Complimentary one year cloud access
- Incorporates MQTT, HTTP and LoRaWAN[®] cloud integration capabilities
- Dual Wi-Fi enabling wireless experimentation between Raspberry Pi and Arduino
- Dual Bluetooth facilitating wireless experimentation between Raspberry Pi and Arduino
- Supports diverse wireless protocols: Bluetooth, BLE, Wi-Fi, Zigbee and LoRaWAN[®]
- Incorporates GSM Cellular Interface support
- Offers multiple Protocol Interfaces: Digital, Analog, I2C, SPI, UART
- Exactly suitable for the Anna University Curriculum
- Rugged design to use it effectively

Onboard Sensors & Actuators

- RGB LED (Common Cathode)
- RGB LED (Common Anode)
- 1x Active High Push Button
- 1x Active Low Push Button
- 1x Active High Buzzer
- 2x Slide Switch
- 2x 5V 5A Relay with NO, COM, NC
- 1x High Precision Potentiometer
- Probe Tester
- 1x 1.8" TFT Color Display
- 1x SIM800C GSM with Micro SIM Slot
- Audio Interface Support
- 1x Xbee S2C 2mW Wireless Module with Antenna
- 1x LA66 LoRaWAN[®] Module
- 1x ESP8266 Wi-Fi Module
- 1x HC05 Bluetooth Module
- 1x IR Sensor (Digital Output)
- 1x LM35 Temperature Sensor (Analog Output)
- 1x Ultrasonic Sensor (HC-SR04)
- 1x DHT11 Temperature and Humidity Sensor
- Breadboard

SYSTEM ARCHITECTURE



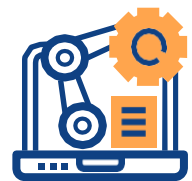
BENEFITS



Hands-on with IoT



Incorporate your Ideas



Develop Industrial
Standard Applications



Enhancing Student
Innovations



Meet Current Industry
Standards



Bridge the gap between
Industry & Academy

Product Size	230 x 230mm, 2.240 Kg
Enclosure Material	Wooden, Brown
Power Supply	6V to 24V DC

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