thingZkit® Basic

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

Overview

A fantastic hardware tool for educational purposes, enhancing practical learning for students. This kit includes powerful microcontrollers like Raspberry Pi Pico W and Arduino Uno, along with various sensors, buttons, displays, and wireless modules. It's designed to help students explore Internet of Things (IoT) concepts in a hands-on manner. With features such as cloud access, Wi-Fi, Bluetooth, and GSM support, this kit helps students experiment and learn about modern technologies. The kit's durability and compatibility with Anna University's curriculum make it an excellent choice for effective learning.

Microcontroller

➤ Raspberry Pi Pico W

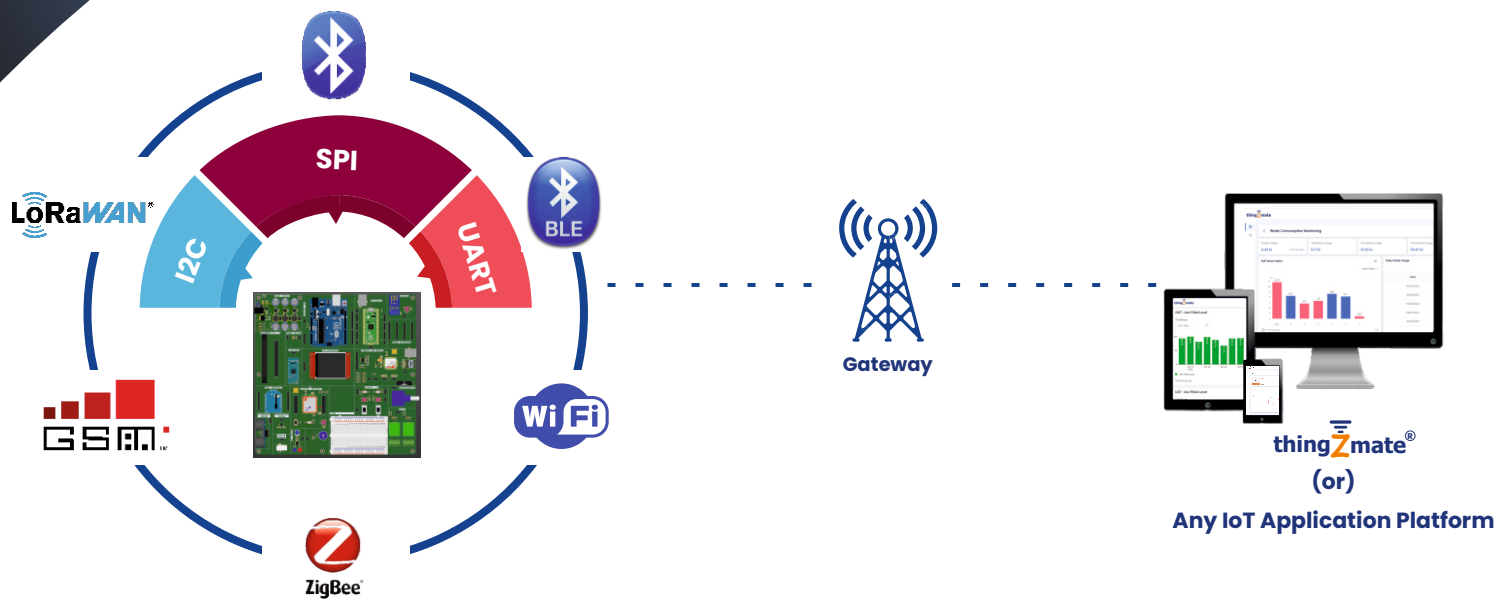➤ Arduino Uno

➤ Provision to Interface RPi4 externally

Key Highlights

➤ Complimentary lifelong Cloud access for onboard sensor and actuator utilization.

➤ 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

➤ 2x RGB LED

➤ 1x Active High Push Buzzer

➤ 1x Active Low Push Button

➤ 1x Active High Buzzer

➤ 2x Slide Switch

➤ 2x 5V 5A Relay with NO, COM, NC

➤ 1x High Precision Potentiometer

➤ 1x 3.2" TFT Color Display

➤ 1x SIM808 GSM

➤ 1x Xbee S2C 2mW Wireless Module with Antenna

➤ 1x LA66 LoRaWAN Module

➤ 1x ESP8266 ESP01 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

SYSTEM ARCHITECTURE

Gateway

thingZmate®
(or)
Any IoT Application Platform
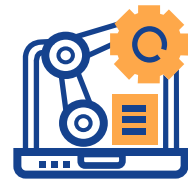
BENEFITS

Hands-on with IoT

Incorporate your Ideas

Develop Industrial
Standard Applications

Enhancing Student
Innovations

Meet Current Industry
Standards

Bridge the gap between
Industry & Academy

Dimension (Approx)	240 * 202 * 70 mm (9.449 * 7.953 * 2.756 Inches)
Enclosure Material	Wooden
Enclosure Color	Brown
Product Weight	2.240 Kg
Power Supply	12V DC 2.5 A

Free access to thingZmate® IoT Platform

Enthu Technology Solutions India Pvt Ltd

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