

Your easy way to learn **Embedded Programming using Arduino IDE** and understanding microcontrollers is here !



Overview

Looking to learn embedded programming and microcontroller basics? Arduino IDE offers a user-friendly platform to get started with. Our comprehensive guide simplifies the process, making it easy to understand and apply. Unleash your creativity and innovation with the power of embedded programming today!

SPECIFICATIONS & FEATURES

Onboard MCU

- ESP32

Multiple Onboard Embedded Communication Protocols

- LoRaWAN[®]
- Wi-Fi 802.11b/g/n Bit rate: 802.11n up to 150 Mbps
- Bluetooth V4.2 BR/EDR
- Bluetooth LE

Programming Examples

- Arduino C Programming

Tools Used

- Arduino IDE
- STM8 Visual Programmer (STVP)
- Serial Port Utility

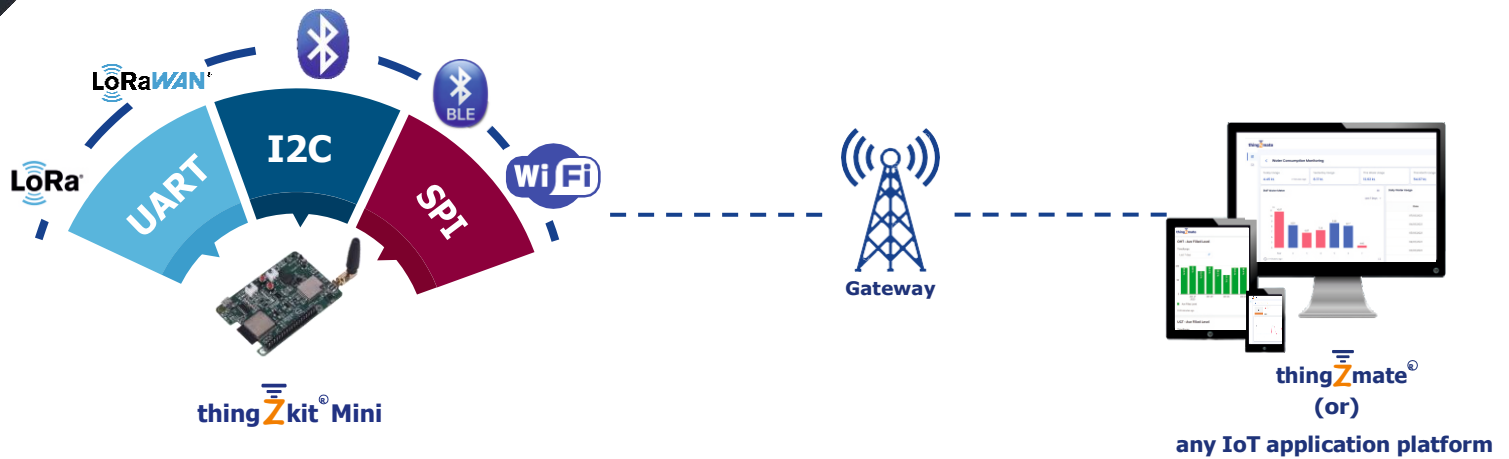
On-Board Features

- 1x LED
- SHT31 Temperature & Humidity Sensor
- Digital GPIO
- Analog GPIO
- Rechargeable Circuit
- Battery Over Charge Protection Circuit
- 5V Booster for Battery Power with Software Enable /
- Disable option
- Dedicated GPIO pin to read Battery Level
- Switch to select Battery Power (or) External Power
- Reverse Polarity Protection
- Short Circuit Protection
- ESD Protected Micro USB Port for Programming
- LoRaWAN[®]- Class A & Class C Support
- LoRaWAN[®]Activation Method - ABP & OTAA

External Accessories

- Battery 865 MHz LoRaWAN[®]Antenna
- 2600mAh Rechargeable Battery
- USB Programming Cable

SYSTEM ARCHITECTURE



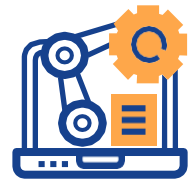
BENEFITS



Projects and POC's



Incorporate your Ideas



Develop Industrial
Standard Applications



Enhancing Student
Innovations



Meet Current Industry
Standards



Bridge the gap between
Industry & Academy

Dimension	144 * 75 * 53 mm (5.669 * 2.953 * 2.087 Inches)
Enclosure Material	Carton Box
Enclosure Color	Brown
Product Weight	1 Kg
Power Supply	5V USB Power



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📍 PMR Layout, Goldwins, Coimbatore – 14.

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