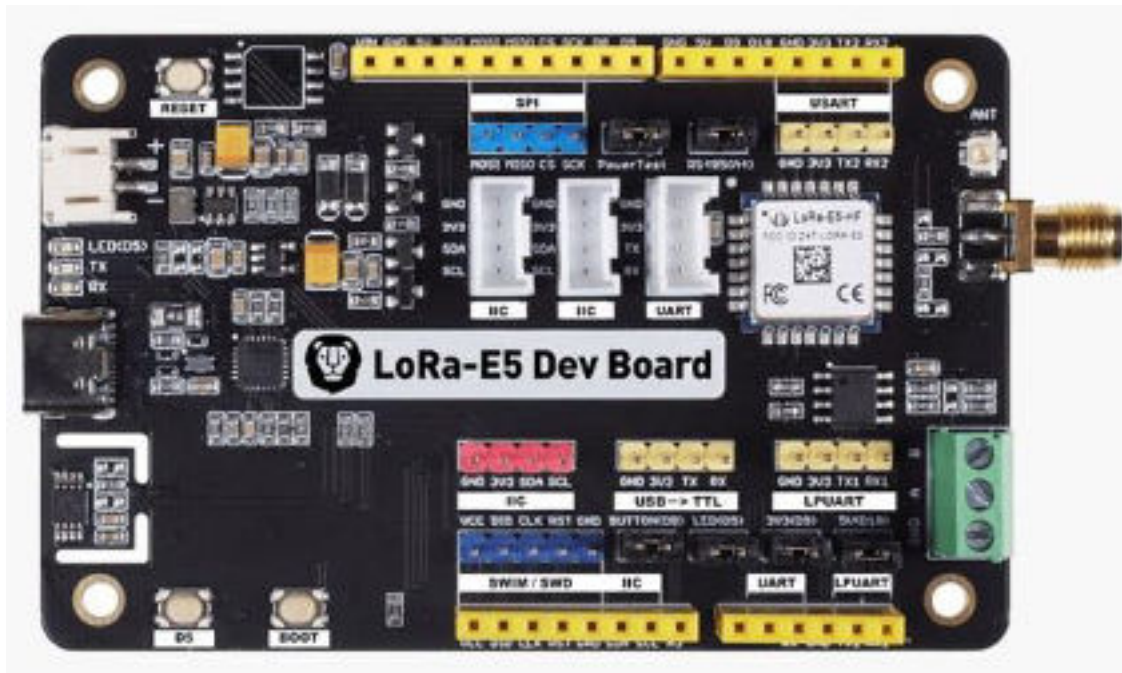




12. LORAWAN E5 GATEWAY TRAINER

MODEL-LORA-E5-100

SPECIFICATIONS



This trainer has been designed with a view to provide practical and experimental knowledge of Internet of Things (IOT) with LoRaWAN Gateway Communication Sensors programming with LoRaWAN Gateway.

SPECIFICATIONS

A. Main Specs

1. Following Parts and Modules are assembled on Single PCB of size - 18 Inch x 15 Inch.
2. The complete circuit diagram is screen printed on component side of the PCB with circuit and Parts at the same place.
3. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement.
4. Modules and Parts should be removable without desoldering for easy repair / replacement
5. The acrylic cover is fitted on PCB to safeguard main parts.

B. Micro Controllers

1. LoRa-E5 Dev Board : 1 No
2. Antenna - EU868 : 1 No

C. Sensors

1. Flame Sensor : 1 No
2. Photosensitive LDR Sensor : 1 No
3. Temperature and Humidity Sensor : 1 No
4. Ultrasonic Distance Sensor : 1 No

G. Features

1. Ultra-low power consumption and high performance
2. Easy testing and rapid prototyping
3. Full GPIOs led out to rich interfaces, including RS-485, Grove, and etc.
4. Global LoRaWAN and LoRa frequency plan supported
5. Long-distance transmission range to 10km (ideal value in open area)
6. Current: LoRa-E5 module sleep current as low as 2.1uA (WOR mode)

I. Micro Controllers and other parts

- | | |
|------------------------------------|----------|
| 1. USB Cables | : 2 No |
| 2. Flame Sensor | : 1 No |
| 3. Photosensitive LDR Sensor | : 1 No |
| 4. Temperature and Humidity Sensor | : 1 No |
| 5. Ultrasonic Distance Sensor | : 1 No |
| 6. White LED | : 5 Nos. |
| 7. Audio Buzzer | : 1 No |
| 8. Relay Module | : 1 No |
| 9. Jumper Wires Male to Male | : 20 Nos |
| 10. Jumper Wires Female to Female | : 20 Nos |
| 11. Jumper Wires Female to Male | : 20 Nos |

J. Accessories

- | | |
|---------------------------------|--|
| 1. All Cables and Adaptors | |
| 2. Pen Drive | : 16 GB with All Codes and Soft copy of Manual |
| 3. E-Books for IOT Subject | : 100 Nos. in PDF Format |
| 4. Mp4 Video for IOT Subject | : 100 Nos |
| 5. Online Cloud/Server Services | : For 1 Years on Cloud Server |
| 6. Live Training at College | : For 2 Days for 4 Hours per Day |
| 7. After Sale Training support | : By Online Zoom Meeting or By Whatsapp Video |

EXPERIMENTS

1. To explain theory of All Micro Controller Boards, All Wireless Gateways and All Sensors Parts
2. To measure all Sensors data using LoRa E5 Board
3. To setup and configure LoRaWAN Cloud Server
4. To send live Sensors Data between two Arduino Lora Shield using Peer-to-Peer Lora Communication
5. To send live Sensors Data between two Lora USB Modules using Peer-to-Peer Lora Communication
6. To send live Sensors Data to LoRaWAN Cloud and View on Website Page Dashboard
7. To send live Sensors Data to LoRaWAN Cloud and View on Android Mobile App
8. To send live Sensors Data to LoRaWAN Cloud and save on MySQL Cloud Server and then store and export it in xls file
9. To send Sensors data to Local Host Server, store and export it in xls file
10. To send Sensors data to Local Host Server and Display on website html page

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