# IoT-Labs: Available Resources

## -. LoRa Devices

| Device | Platform | Board | Technology | Links |
|---|---|---|---|---|
| Dragino shields | Arduino IDE | Arduino | LoRa - LoRaWAN | Short tutorial |
| LoRaBee Microchip RN2483 | Arduino IDE | Autonomo | LoRaWAN | Short tutorial |
| LoPy from Pycom | Micropython | Expansion Board - Pysense - Pytrack | LoRa - LoRaWAN - WiFi - BLE | Short tutorial |
| LoRa/GPS Hat | C++ | Raspberry Pi | LoRa - LoRaWAN | Short tutorial |
| TTGO LoRa32 | Arduino IDE | ESP32 | LoRa - LoRaWAN - WiFi - BLE | Example scripts |
| TTGO T-Beam | Arduino IDE | ESP32 | LoRa - LoRaWAN - WiFi - BLE - GPS | Example scripts |

## -. Sensors

### Multi-sensors Kit

JoyStick - Flame Sensor - RGB LED - Heartbeat Sensor - Light Cup - Hall Magnetic Sensor - Relay - Linear Hall Sensor - SMD RGB - 7 Color Flash - Tilt Switch - Temperature Sensor - Big Sound Sensor - Touch Sensor - Two-Color LED - Laser Emitter - Ball Switch - Analog Temperature Sensor - Small Sound Sensor - Digital Temperature Sensor - Two-Color LED (small) - Button - Photoresistor - IR Emission - Tracking Sensor - Buzzer -Reed Switch - Shock Sensor - Temperature And Humidity Sensor - IR Receiver - Avoidance Sensor - Passive Buzzer - Mini Reed - Rotary Encoders - Analog Hall Sensor - Tap Module - Light Blocking

- https://www.instructables.3com/id/Arduino-37-in-1-Sensors-Kit-Explained/
- https://tkkrlab.nl/wiki/Arduino_KY-039_Detect_the_heartbeat_module

### Gas Sensor Kit

MQ-2 MQ-3 MQ-4 MQ-5 MQ-6 MQ-7 MQ-8 MQ-9 MQ-135

- https://playground.arduino.cc/Main/MQGasSensors

### Other Sensors

- Moisture
- Pysense board for LoPy (Ambient light - Barometric pressure - Humidity - 3 axis 12-bit accelerometer - Temperature)
- Pytrack board for LoPy (GPS - 3 axis 12-bit accelerometer)
- Temperature sensor (DSB18b20)
- Light sensor
- PIR sensor

- Ultrasonic sensor
- MAX6675 (Cold-Junction-Compensated K-Thermocouple- to-Digital Converter)
- Infrared sensor e18-d80nk
- Ph meter
- Keypad + LCD

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