

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.com/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

- Temperature
- Moisture
- Light
- Infrared
- Ultrasonic
- 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)

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