

LoPy

SKU 109110001



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Description

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Technical Details

Questions and Answers

View History

Description

With LoRa, Wifi and BLE, the LoPy is the only triple bearer MicroPython enabled micro controller on the market today – the perfect enterprise grade IoT platform for your connected Things. With the latest Espressif chipset the LoPy offers a perfect combination of power, friendliness and flexibility. Create and connect your things everywhere, and FAST.

Features

- Powerful CPU, BLE and state of the art WiFi radio. 1KM Wifi Range
- Can also double up as a Nano LoRa gateway
- MicroPython enabled, the Linux of IoT for fast deployment
- Fits in a standard breadboard (with headers)
- Ultra-low power usage: a fraction compared to other connected micro controllers

Specification

Processing

- Espressif ESP32 chipset
- Dual processor + WiFi radio System on Chip.
- Network processor handles the WiFi connectivity and the IPv6 stack.
- Main processor is entirely free to run the user application.
- An extra ULP-coprocessor that can monitor GPIOs, the ADC channels and control most of the internal peripherals during deep-sleep mode while only consuming 25uA.

Operating Frequencies

- 868 MHz (Europe) at +14dBm maximum
- 915 MHz (North and South America, Australia and New Zealand) at +20dBm maximum

Range Specification

- Node range: Up to 40km
- Nano-Gateway: Up to 22km
- Nano-Gateway Capacity: Up to 100 nodes

Interfaces

- 2 x UART, 2 x SPI, I2C, I2S, micro SD card
- Analog channels: 8x12 bit ADCs
- Timers: 4x16 bit with PWM and input capture
- DMA on all peripherals
- GPIO: Up to 24

Security and Certifications

- SSL/TLS support
- WPA Enterprise security
- FCC – 2AJMTWIPY2R
- CE 0700

Memory

- RAM: 512KB
- External flash 4MB

- Hardware floating point acceleration

- Python multi-threading

Hash / encryption

- SHA, MD5, DES, AES

Wifi

- 802.11b/g/n 16 mbps

Bluetooth

- Low energy and classic

RTC

- Running at 32KHz

Power

- Input: 3.3V – 5.5V
- 3v3 output capable of sourcing up to 400mA
- Wi-Fi: 12mA in active mode, 5uA standby
- Lora: 15mA in active mode, 1-0uA in standby

LoRa Specification

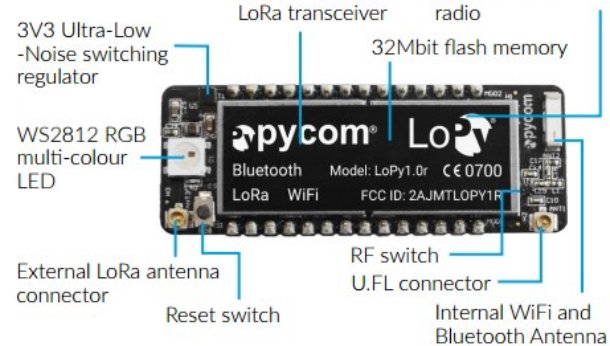
- Semtech LoRa transceiver SX1272
- LoRaWAN stack
- Class A and C devices

Mechanical

Size: 55mm x 20mm x 3.5mm

Operating temperature:
-40 to 85 degrees celsius

ESP32 Dual Core
Microcontroller and
WiFi/Bluetooth 4.2
radio



Part List

1 x LoPy 1.0
You may need [Expansion board](#) or [Antenna Kit](#) for your projects.

Documents

- [Quirkstart guide](#)
- Documents [download](#)
- [Frequently asked questions](#)

Best-sellers



LoRa Antenna Kit



Expansion board



WiPy 2.0

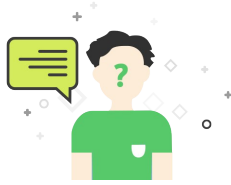


Seeeduino LoRaWAN W/GPS

Technical Details

Dimensions	98mm x 68mm x 21mm
Weight	G.W 31g
Battery	Exclude

Questions and Answers



View History



Mini vibration motor



Gear (reduction) motor p...



3.6V Micro hydro generator



EMAX 9g ES08A High Sensi...

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