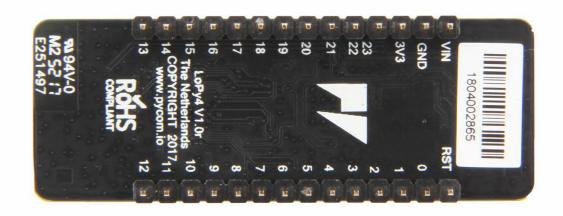
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Bazaar / Development Platforms / MicroPython / Pycom LoPy4 MicroPython enabled development board (LoRa, Sigfox, WiFi, Bluetooth)











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Description

The LoPy4 is a compact quadruple network MicroPython enabled development board (LoRa, Sigfox, WiFi, Bluetooth). It's the perfect enterprise grade IoT platform for your connected Things. With the latest Espressif ESP32 chipset the LoPy4 offers a perfect combination of power, friendliness and flexibility. Create and connect you things everywhere. Fast.

The LoPy4 can act as a LoRa nano gateway and a multi-bearer (LoRa, Sigfox, WiFi and BLE) development platform suitable for all LoRa and Sigfox networks around the globe. It is programmable with MicroPython and the Pymakr plugins for fast IoT application development, easy programming in-field and extra resilience with network failover. You can also configure the LoPy4 in raw LoRa mode to send packets directly between LoPy4's. The best blend of speed to deployment and access to new LPWAN networks rolling out across Europe, USA, Africa and India. The LoPy4 is CE, FCC approved, LoRaWAN and Sigfox certified.

LoPy4 Features

- Powerful CPU, BLE and state of the art WiFi radio
- · Can also double up as Nano LoRa gateway
- MicroPython enabled
- Fits in a standard breadboard (with headers)
- Ultra-low power usage: a fraction compared to other connected micro controllers

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

Technical Details

Dimensions 98.50mm x 68.50mm x 22mm

Weight G.W 31g N.W 9g Battery

Xtensa® dual-core 32-bit LX6 microprocessor(s), up to 600 DMIPS / Hardware floating point acceleration / Python multi-threading / An extra ULP-coprocessor CPU

that can monitor GPIOs, the ADC channels and control most of the internal peripherals during deep-sleep mode while only consuming ~25uA

520KB + 4MB External flash 8MB

802.11b/g/n 16mbps WiFi

Bluetooth Low energy and classic LoRaWAN 1.0.2 stack - Class A and C devices / Node range: Up to 40km / Nano-gateway: Up to 22km (Capacity up to 100 nodes) LoRa Sigfox Class 0 device. Maximum Tx power:+14dBm(Europe),+20dBm (America),+20dBm (Australia and New Zealand) / Node range: Up to 50km

RTC Running at 150kHz

SSL/TLS support / WPA Enterprise security
SHA / MD5 / DES / AES Security

Hash / encryption

Security & Certifications SSL/TLS support; WPA Enterprise security; FCC 2AJMTLOPY4R; CE 0700 Power

Input

Output 3v3 output capable of sourcing up to 400mA WiFi 12mA in active mode, 5uA in standby LoRa 15mA in active mode, 1-uA in standby

Sigfox (Europe) 12mA in Rx mode, 42mA in Tx mode and 0.5uA in standby Sigfox (Australia, New

Zealand and South

12mA in Rx mode, 120 mA in Tx mode and 0.5uA in standby America)

Interfaces

2 x UART, SPI, 2 x I2C, I2S, micro SD card Analog channels: 8×12 bit ADCs Timers: 4×16 bit with PWM and input capture

DMA on all peripherals GPIO: Up to 24

Part List

LoPy4 1.0 with Headers1

ECCN/HTS

ECCN 5A002.a.1 HSCODE8543709990

Documents

Spe

Questions and Answers





Pycom LoPy4 MicroPython enabled development board (LoRa, Sigfox, WiFi, Bluetooth)

Description
Technical Details
Questions and Answers

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