Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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WiPy 2.0

Introducing the WiPy 2.0. The tiny Micro Python enabled Wifi & Bluetooth IoT development platform. With a 1KM WiFi range, state of the art Espressif ESP32 chipset and dual processor, the WiPy is all about taking the Internet of Things to the next level.

Create and connect your things everywhere. Fast.

WiPy Features

- Powerful CPU, BLE and state of the art WiFi radio.

- 1KM Wifi Range

- 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

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.

Use the Pymakr IDE
Super easy code editor to write your Python scripts.

Quick Verification
For easy and fast debugging use the interactive shell that is accessible through telnet or one of the serial ports.

Easy Upload
Upload your scripts, and any other files you want to the WiPy via the FTP server
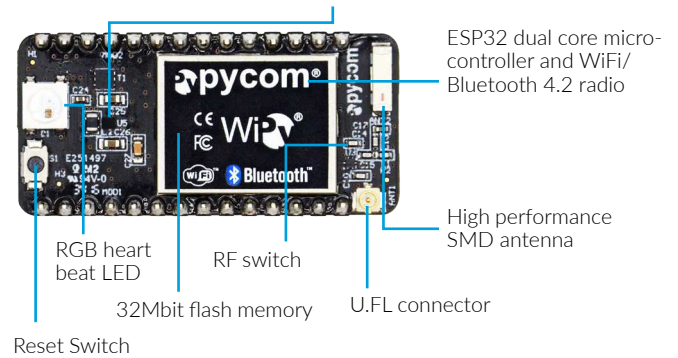
Locally or remotely
Reset the WiPy (you can do it locally, or remotely via Telnet)

Mechanical

Size: 42mm x 20mm x 3.5mm (excluding headers)

Operating temperature: -40 to 85 degrees celsius

3V3 ultra low noise switching regulator

ESP32 dual core micro-controller and WiFi/Bluetooth 4.2 radio

RGB heart beat LED

RF switch

High performance SMD antenna

32Mbit flash memory

U.FL connector

Reset Switch

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

Hash / encryption
SHA, MD5, DES, AES

Wifi
802.11b/g/n 16mbps

Bluetooth
Low energy and classic

RTC
Running at 32KHz

Power
- 3.3V to 5.5V
3V3 output capable of sourcing up to 500mA

Security & Certifications
- SSL/TLS support
- WPA Enterprise security
- FCC - 2AJMTWIPY2R
- CE 0700

Memory
- RAM: 512KB
- External flash 4MB
- Hardware floating point acceleration.
- Python multi-threading.

With dozens of ready to use templates and libraries soon to be available on the Pycom Exchange, developing a new IoT solution is now easier and faster. Additional support for Blynk: SMTP, MQTT, URLLIB, ONEWIRE, Accelerometer, Event loop MicroPython together with the universal hardware API allow us to build a large set of powerful, robust, and portable libraries across hardware platforms.