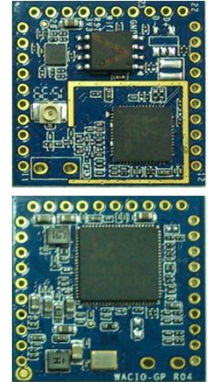


WACIO_GP is 2.4GHz 1T1R Wi-Fi module using Realtek RTL8196EU-VE3 and RTL8188ER dual-chip system.

The module provides 3.3V and uses embedded Linux. Also integrate WAC (Wireless Accessory Configuration) function and comply with Apple HomeKit standard. WACIO_GP could provide multifunction and high performance for IOT applications.

This will implement all the requiring features of HomeKit accessory protocol (HAP), which is including:

- Wireless Accessory Configuration (WAC)
- Bonjour Advertisement and Discovery
- Pairing Process
- Encrypted the key over HTTP and JSON
- HomeKit Service Profiles



Features

- IEEE802.11 b/g/n
- AP/Client
- 2.4GHz 1T1R
- LAN Port
- USB Host
- Apple WAC protocol embedded
- Pass Apple WAC compliance test
- Apple HomeKit accessory profile (HAP)
- Apple HomeKit protocol
- CP embedded (Made For iPhone)
- Application profile (power plug with meter, FAN, LightBulb color control....)
- OTA (Over The Air)/dual image function

Specification

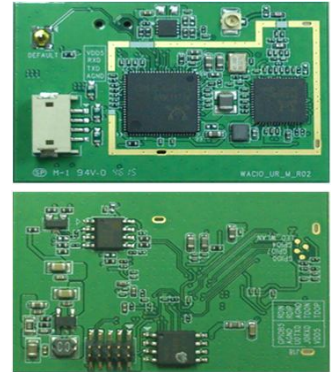
- Supply Voltage : 3.3V ± 5%
- Pin header Interface : LAN x 1 / USB2.0 x1 (host) / LEDs / GPIOs
- WiFi : 2.4GHz 802.11 b/g/n 1T1R(one IPEX antenna connector)
- CPU : MIPS (RLX4181) RISC / 400MHz high throughput performance
- Memory : 32MB SDR DRAM
- SPI Flash : Up to 8MB
- MFi Certification : Provided (CP)
- Support Networking Technology : TCP/IP, IPv4, IPv6, DHCP, Bonjour (mDNS), web-sockets and HAP Server
- OTA firmware Update : Optional
- Customized profile : Optional
- Development Kit : HomeKit Software Development Kit (SDK) and Evaluation Board (EVB)
- Dimension : 24.38mm x 23.62mm x 4.8mm

WACIO_UR is 2.4GHz 1T1R WiFi module using Realtek RTL8196EU-VE3 and RTL8188ER dual-chip system.

The module provides 5.0 V and uses embedded Linux. Also integrate WAC (Wireless Accessory Configuration) function and comply with Apple HomeKit standard. WACIO_UR could provide multifunction and high performance for IOT applications, it's good to be used for big appliance machine like Air Conditioner / thermostat ...especially .

This will implement all the requiring features of HomeKit accessory protocol (HAP), which is including:

- Wireless Accessory Configuration (WAC)
- Bonjour Advertisement and Discovery
- Pairing Process
- Encrypted the key over HTTP and JSON
- HomeKit Service Profiles



Features

- IEEE802.11 b/g/n
- AP/Client
- 2.4GHz 1T1R
- LAN Port
- USB Host
- Apple WAC protocol embedded
- Pass Apple WAC compliance test
- Apple HomeKit accessory profile (HAP)
- Apple HomeKit protocol
- CP embedded (Made For iPhone)
- Application profile (Air Conditioner, thermostat, ..)
- OTA (Over The Air)/dual image function

Specification

- Supply Voltage : 5V ± 5%
- Console connector Interface : UART_TX / UART_RX / GND / VCC (Test pins – LAN/Debug UART/ GPIOs/ VCC /GND)
- WiFi : 2.4GHz 802.11 b/g/n 1T1R(one IPEX antenna connector)
- CPU : MIPS (RLX4181) RISC / 400MHz high throughput performance
- Memory : 32MB SDR DRAM
- SPI Flash : Up to 8MB
- MFi Certification : Provided (CP)
- Support Networking Technology : TCP/IP, IPv4, IPv6, DHCP, Bonjour (mDNS), web-sockets and HAP Server
- OTA firmware Update : Optional
- Customized profile : Optional
- Development Kit : HomeKit Software Development Kit (SDK) and Evaluation Board (EVB)
- Dimension : 25mm x 44mm

WACDNA_UR module is a small-sized , It combines 802.11 1T1R b/g/n that achieves a data rate up to 150Mbps. This module supports WiFi Station/Soft AP/con-current mode. It is ideal for multi-purpose installation for Machine to Machine (M2M) device. It runs FreeRTOS for ARM Cortex M3 166MHz MCU insides with advanced power management (stand-by/sleep/deep sleep)

WACDNA_UR is 2.4GHz 1T1R Wi-Fi module using Realtek RTL8711AM single chip. The module provides 3.3V. Also integrate WAC (Wireless Accessory Configuration) function and comply with Apple HomeKit standard. WACDNA_UR could provide 53 pin-out with more control interfaces for multi-function.

This will implement all the requiring features of HomeKit accessory protocol (HAP), which is including :

- Wireless Accessory Configuration (WAC)
- Bonjour Advertisement and Discovery
- Pairing Process
- Encrypted the key over HTTP and JSON
- HomeKit Service Profiles



Specification

- Realtek RTL8711AM single chip
- IEEE802.11 b/g/n 1T1R ARM Cortex M3 166MHz
- ROM/RAM inside (1MB/2M+512kB)
- External 2MB Flash
- FreeRTOS & Lightweight TCP/IP (lwIP)
- IAR/DAP development tool
- GPIOs multiplexed with other control interface
- I2S with 8/16/32/48/44.1KHz sample rate
- Max 3 I2Cs interface
- Max 2 SPIs/SDIOs supported, one supports baud rate up to 41.5MHz, the other one supports baud rate up to 15MHz
- PCM with 8/16KHz sample rate
- Support 4 PWMs with configurable duration and duty cycle from 0~100%
- Max 2 high speed UARTs with baud rate up to 4MHz
- 1 log/debug UART with standard baud rate
- Support Networking Technology : TCP/IP, IPv4, IPv6, DHCP, Bonjour (mDNS), web-sockets and HAP Server
- OTA firmware Update : Optional
- Customized profile : Optional
- Development Kit : HomeKit Software Development Kit (SDK) and Evaluation Board (EVB)
- Dimension : 22.5mm x 19mm
- LGA module 53-pin

Features

- IEEE802.11 b/g/n
- Soft AP/Client
- 2.4GHz 1T1R
- UART x 2 (one for debug purpose)
- I2C/I2S/SPI/SDIO/PWM/PCM/JTAG
- Apple WAC protocol embedded
- Pass Apple WAC compliance test
- Apple HomeKit accessory profile (HAP)
- Apple HomeKit protocol
- CP embedded (Made For iPhone)
- Application profile (power plug with meter, FAN, LightBulb color control....)
- OTA (Over The Air)/dual image function

