





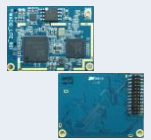


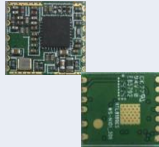














Product List

IOT WiFi Module					
Model	Dimension	IC	Description	Image	Application
WACIO_UR (for HomeKit)	25 x 44 (mm)	RTL8196EU + RTL8188ER	<ul style="list-style-type: none"> IEEE802.11 b/g/n 2.4GHz 1T1R AP/Client 400MHz CPU +5V voltage UART GPIOs Pass Apple WAC compliance test 	<ul style="list-style-type: none"> 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 	 <ul style="list-style-type: none"> Fan Heater Air Conditioner Thermostat
WACIO_GP (for HomeKit)	24.38 x 23.62 x 4.8 (mm)	RTL8196EU + RTL8188ER	<ul style="list-style-type: none"> IEEE802.11 b/g/n AP/Client 400MHz CPU LAN Port USB Host for virtual com Apple WAC protocol embedded Pass Apple WAC compliance test 	<ul style="list-style-type: none"> 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 	 <ul style="list-style-type: none"> Smart Plug Smart Light Blub Adapter Bridge BLE Tunneling
WACDNA_UR (for HomeKit)	22.5 x 19 (mm)	RTL8711AM	<ul style="list-style-type: none"> IEEE802.11 b/g/n 2.4GHz 1T1R Soft AP/Client 2.4GHz 1T1R UART x 2 (one for debug purpose) I2C/I2S/SPI/SDIO/PWM/PCM/ADC / DAC/NFC Tag/JTAG Apple WAC protocol embedded Pass Apple WAC compliance test 	<ul style="list-style-type: none"> 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 	 <ul style="list-style-type: none"> Smart Plug Fan Smart Lighting
WACBRG (for HomeKit)	31.5 x 52.5 (mm)	MT7688A	<ul style="list-style-type: none"> MIPS24KEc 575/580 MHz w/64 KB I-Cache and 32 KB D-Cache 1T1R 802.11n 2.4GHz w / MAC / BBP / RF FEM Support external PA/LNA SpFE SW or 1p IoT mode 16-bit DDR1/DDR2 up to 256 Mbytes SPI, SDXC, eMMC(8b) 	<ul style="list-style-type: none"> USB2 Host PCIe Host I2C, UART(3), PWM, GPIO Audio interface (I2S (24b, 192Kbits), PCM) AES128/256 Firmware : Linux 2.6.36/3.10 SDK, OpenWrt 3.10, eCos 	 <ul style="list-style-type: none"> HomeKit Bridge Power Stripe
WACHIGH_UR (for HomeKit)	51 x 33 (mm)	RTL8196D	<ul style="list-style-type: none"> IEEE802.11 b/g/n 2.4GHz 1T1R AP/Client 620MHz CPU LAN Port USB Host 80 Mbps UART/GPIOs/I2S/I2C Default Flash/DDR2 memory – 8MB/64MB 	<ul style="list-style-type: none"> Pass Apple WAC compliance test Apple HomeKit accessory profile (HAP) Apple HomeKit protocol CP embedded (Made For iPhone) Application profile (IP CAM, Bridge, Gateway....) OTA (Over The Air)/dual image function 	 <ul style="list-style-type: none"> Bridge Gateway IP CAM
WACIO_GP_Legacy	24.38 x 23.62 x 4.8 (mm)	RTL8196EU + RTL8188ER	<ul style="list-style-type: none"> Support Interface LAN, USB, UART and GPIOs Support boot from Flash WiFi Data Rate up to 150Mbps LAN Data Rate up to 100Mbps USB throughput up to 20Mbps Security : 64/128-bits WEP, TKIP,WPA, WPA2, AES, WPS Multi-modes : AP/router/gateway/bridge/client Support unique mode called WiFi repeater (AP-Client) Support built-in web server 	<ul style="list-style-type: none"> Embedded Linux SDK to be developed by customer URL/AT command set for APP UART bridge to TCP/IP Socket client / server Application range for IOTs/M2M/Storage/IP CAM/Image Streaming... and 3G/4G (option) Sensor network for Zigbee/GPS/BT/ NFC(option) Cloud Development (option) HomeKit Development (option) OTA Development (option) APP Development (option) 	 <p>Microscope</p>
WACIO_LT	25 x 35 (mm)	RTL8196EU + RTL8188ER	<ul style="list-style-type: none"> IEEE802.11 b/g/n Gateway/AP/ Repeater 2.4GHz 1T1R 10/100 LAN ports, 1 WAN port 	<ul style="list-style-type: none"> USB Host for IP CAM/Storage/Scanner CPU 400MHZ 16-pin header 	 <ul style="list-style-type: none"> WiFi Scanner IP CAM WiFi Card Reader

IOT WiFi Module					
Model	Dimension	IC	Description	Image	Application
WACDNA_GP	22.5 x 19 (mm)	RTL8711AM	<ul style="list-style-type: none"> Realtek RTL8711AM single chip with I2C/I2S/SPI/UART/PWM/JTAG/GPIOs interface 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 LGA module 53-pin I2S with 8/16/32/48/44.1KHz sample rate 	<ul style="list-style-type: none"> Max 3 I2Cs interface Max. 2 SPI supported, one supports bit 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 21 GPIOs 	 M2M/IoT
WACDNA_LT	22.5 x 19 (mm)	RTL8711AF	<ul style="list-style-type: none"> Realtek RTL8711AF single chip with SDIO/2C/I2S/SPI/UART/PWM/JTAG /GPIOs interface IEEE802.11 b/g/n 1T1R ARM Cortex M3 166MHz Internal 512KB ROM Internal 1MB Flash FreeRTOS & Lightweight TCP/IP (lwIP) IAR/DAP development tool LGA module 53-pin I2S with 8/16/32/48/44.1KHz sample rate SDIO 2.0 	<ul style="list-style-type: none"> Max 2 I2Cs interface SPI 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 3 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 15 GPIOs 	 M2M/IoT
WACAM	14.1x12.5x2 (mm)	RTL8189ES	<ul style="list-style-type: none"> Realtek RTL8189ES single chip with SDIO 2.0 salve interface Date rate up to 150Mbps Security : 64/128-bits WEP, TKIP, WPA, WPA2, AES Windows/Linux/Android drivers supported 	<ul style="list-style-type: none"> Specific eCOS and FreeRTOS drivers supported Support Green WLAN Enhanced BT/WiFi Coexistence control to improve transmission quality in different profile LGA module 13-pin 	 <ul style="list-style-type: none"> Camera Car Tracker
WACHIGH	30 x 45 (mm)	RTL8196D	<ul style="list-style-type: none"> Realtek chipset with interface LAN, USB, UART, I2S/I2C and GPIOs. CPU 600MHZ Data Rate up to 150Mbps Security : 64/128-bits WEP, TKIP, WPA, WPA2, AES, WPS 	<ul style="list-style-type: none"> Multi-modes : AP/Router/Client Support DLNA server Default Flash/DDR2 memory – 8MB/64MB, can extend to 16MB/128MB 	 <ul style="list-style-type: none"> IP CAM NAS Sensor Hub Mobile AP with Power Bank Mobile Hotspot
WACUSB1 /1-S	14.2 x 12.2 / 13.7 x 12.2 (mm)	RTL8188ETV	<ul style="list-style-type: none"> Stamp module size 14.2x12.2mm with 6-pins for SMT mounting Lowest power consumption and high performance USB 2.0 bus interface 480Mbps high speed Operates at 2.4GHz ISM frequency band ROHS compliance 	<ul style="list-style-type: none"> WiFi 2T2R allows data rates supporting up to 300Mbps downstream and 300Mbps upstream PHY rates Fully compliant with IEEE 802.11 b/g/n and IEEE 802.11 d/e/h/i Enterprise level security which can apply WPA/WP2 certification for WiFi 	 WiFi USB
WACUSB2	14.2 x 12.2 (mm)	RTL8192EU	<ul style="list-style-type: none"> Stamp module size 14.2x12.2mm with 6-pins for SMT mounting Lowest power consumption and high performance USB 2.0 bus interface 480Mbps high speed Operates at 2.4GHz ISM frequency band ROHS compliance 	<ul style="list-style-type: none"> WiFi 2T2R allows data rates supporting up to 300Mbps downstream and 300Mbps upstream PHY rates Fully compliant with IEEE 802.11 b/g/n and IEEE 802.11 d/e/h/i Enterprise level security which can apply WPA/WP2 certification for WiFi 	 2x2 WiFi USB
WiFi+BT COMBO	12 x 12 x 2 (mm)	RTL8723BS	<ul style="list-style-type: none"> Realtek single chip with WiFi SDIO and BT HS-UART salve interface Date Rate up to 150Mbps Security : 64/128-bits WEP, TKIP, WPA, WPA2, AES Windows/Linux/Android drivers supported Support Green WLAN 	<ul style="list-style-type: none"> Bluetooth 2.1/3.0/4.0 Supports multi states of Low Energy to increase the flexibility of application Enhanced BT/WiFi Coexistence control to improve transmission quality in different profile GA module 44-pin 	 POS Machine

Product List

IOT WiFi Module						
Model	Dimension	IC	Description	Image	Application	
WACIO_MT	32 x 20 (mm)	MT7687F	<ul style="list-style-type: none">MediaTek MT7687F single chip with I2C/I2S/SPI/UART/PWM/ADC/JTAG/GPIO interfaceIEEE802.11 b/g/n 1T1R ARM Cortex M4 192MHzROM/RAM inside (64KB/352KB)External 2MB Flash.FreeRTOS & Lightweight TCP/IP (lwIP)Linux development tool	<ul style="list-style-type: none">2-pin LGA footprintI2S with 8/16/32/48/44.1KHz sample rateMax 2 I2Cs Master interface1 SPI master. 1 SPI slave4 12-bit ADCsSupport 28 PWMsMax 2 UARTs and 1 log/debug UART28 GPIOs	 	M2M/IoT
WACIO_STAMP	32.5 x 26.67 (mm)	RTL8196EU+ RTL8188ER	<ul style="list-style-type: none">IEEE802.11 b/g/nGateway/AP/ Repeater2.4GHz 1T1R10/100 LAN ports, 1 WAN port	<ul style="list-style-type: none">USB Host for IP AM/Storage/ScannerCPU 400MHZ52-pin LGA		Low end AP/Router
WAC11AC	65 x 25 (mm)	RTL8881AM	<ul style="list-style-type: none">IEEE802.11 a/b/g/n 2T2R diversityGateway/AP/Repeater2.4GHz/5GHz5 10/100 LAN ports	<ul style="list-style-type: none">USB Host/I2S/I2C/UART/GPIOsCPU 520MHZ (Flash/DDR 128MB/ 32MB)60-pin LGA		11ac AP/Router
WAC11AC_Combo	65 x 25 (mm)	RTL8881AM+ RTL8671ATV	<ul style="list-style-type: none">IEEE802.11 a/b/g/n 2T2R diversity + BT2.1/3.0/4.0 BLEGateway/AP/Repeater2.4GHz/5GHz5 10/100 LAN ports	<ul style="list-style-type: none">USB Host/I2S/I2C/UART/GPIOsCPU 520MHZ (Flash/DDR 128MB/ 32MB)60-pin LGA		11ac WiFi Audio

IOT BT / Zigbee Module						
Model	Dimension	IC	Description		Image	Application
PHYBT904 (for HomeKit)	6.5 x 6.5 (mm)	TLSR8267	<ul style="list-style-type: none">Embedded high performance antennaBluetooth® v4.0 LE radio technology-90 dBm sensitivity in Bluetooth® low energy mode250 kbps, 1 Mbps, 2 Mbps supported data ratesTX Power -20 to +4 dBm in 4 dB stepsTX Power -30 dBm Whisper mode25 mA peak RX, 23 mA peak TX (0 dBm)	<ul style="list-style-type: none">RSSI (1 dB resolution)256 KB embedded flash program memorySupply voltage range 1.8 V to 3.6 VSPI Master/SlaveLow power comparatorTemperature sensorTwo-wire Master (I2C compatible)UART (CTS/RTS)AES HW encryptionReal Timer Counter (RTC)Antenna On Package (AoP)LGA-48 package, 6.5 x 6.5 mm		<ul style="list-style-type: none">Mobile phone accessoriesWearablesBeaconsPC peripherals (keyboard/mouse)Remote controlsProximity/Alert sensorsSportsFitness and healthcare sensor
PHYBT550 /551	25 x 12.5 x 2.0 (mm)	CC2540 /2541	<ul style="list-style-type: none">Bluetooth standard V4.0 compliant TI chipSupport I2C(CC2541) or USB (CC2540) interfaceTwo Powerful USARTs With Support for Several Serial ProtocolsExcellent Link Budget (up to 97 dB)21/23 General-Purpose I/O Pins (19/21 × 4 mA, 2 × 20 mA)	<ul style="list-style-type: none">12-Bit ADC with Eight Channels and Configurable ResolutionAES Security CoprocessorBattery Monitor and Temperature SensorPowerful Five-Channel DMAWatchdog timerRoHS CompliantSmall outline		<ul style="list-style-type: none">Proprietary 2.4-GHz Systems in TX modeSports and Leisure EquipmentMobile Phone AccessoriesConsumer ElectronicsHuman-Interface Devices (Keyboard, Mouse, Remote Control)
WACZB-107	15 x 20.5 x 2 (mm)	TI CC2530	Zigbee 2.4 GHz IEEE 802.15.4 Compliant			LED Lighting/Tag

Phytrex Technology Corp.




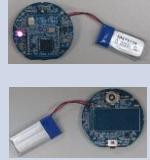



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Product List

System Board					
Model	Dimension	IC	Description	Image	Application
WACIO _Combo	93 x 53 (mm)	RTL8196E_V G3 + RTL8723BS	<ul style="list-style-type: none"> WiFi + BLE bridge solution Realtek chipset with interface LAN, USB, UART, I2S/I2C and GPIOs. Security : 64/128-bits WEP, TKIP, WPA, WPA2, AES, WPS 	<ul style="list-style-type: none"> CPU 400MHZ Data Rate up to 150Mbps Multi-modes : AP/Router/Client Support DLNA server Default Flash/DDR2 memory – 8MB/32MB 	 <ul style="list-style-type: none"> Sensor Hub HomeKit BLE Tunneling
HomeKit Power Socket	100 x 50 x 50 (mm)	RTL8711AM	<ul style="list-style-type: none"> 110V @16A USA Type Socket (rating could be adjustable) WiFi 2.4GHz 1T1R 150Mbps Homekit standard compliance Metering (current/voltage) function 	<ul style="list-style-type: none"> OTA (Over The Air) upgrade APP Supported Cloud service It's easy to modify design for different area's power socket type to pass regulation 	 <ul style="list-style-type: none"> Smart Plug Turn-key
HomeKit Lightblub Adapter	60 mm Diameter Circle	RTL8711AM	<ul style="list-style-type: none"> Lightblub adapter with dimming WiFi 2.4GHz 1T1R 150Mbps HomeKit standard compliance Dimmer function 	<ul style="list-style-type: none"> OTA (Over The Air) upgrade APP Supported Cloud service It's suitable for E27/E26 type lighting blub 	 <ul style="list-style-type: none"> Smart lighting turn-key
Zigbee Tag	30 mm Diameter Circle	TI CC2530	<ul style="list-style-type: none"> 2.4GHz IEEE802.15.4 compliance for IOT control/lighting/location Lowest power consumption G-Sensor detection for wake-up/dropping/falling down/running Bottom for power reset/emergency call 	<ul style="list-style-type: none"> GOGO pin for battery charge (75mAh max) Wearable design for easy ID concept Provide SDK for time to market development RTLS (Location Server)- optional 	 <ul style="list-style-type: none"> Health care Pet monitor Tag/location
WiFi Tag	70 x 40 (mm)	ST MCU + RTL8189EM	<ul style="list-style-type: none"> 2.4GHz IEEE802.11 b/g/n 1T1R ARM Cortex-M3 G-Sensor detection for wake-up/dropping/falling down/running Bottom for power reset/emergency call 	<ul style="list-style-type: none"> Pin for external battery charge Wearable design for easy ID concept Provide SDK for time to market development RTLS (Location Server)- optional 	 <ul style="list-style-type: none"> Health care Pet monitor Tag/location
Mobile Hotspot	100 x 80 (mm)	RTL8196D + RTL8188ER	<ul style="list-style-type: none"> 2.4GHz IEEE802.11 b/g/n 1T1R up to 150Mbps CPU 620MHZ Flash/ DDR - 8MB/64MB Gateway/WiFi repeater SIM Slot for PCIe for 3G/4G (Optional) 1 Ethernet LAN IEEE802.3u 10/100Mbps 	<ul style="list-style-type: none"> 2 USB2.0s Host for Storage or Charger SD for storage 2000~5000mA capability for Battery FAT32/exFAT/NTFS/SAMBA P2P remote control (optional) 	 <ul style="list-style-type: none"> WiFi Sensor Hub WiFi Card Reader Personal Cloud
Personal Cloud	91 x 54 x 17.3 (mm)	RTL8196D + RTL8188ER	<ul style="list-style-type: none"> 2.4GHz IEEE802.11 b/g/n 1T1R up to 150Mbps CPU 620MHZ Gateway/WiFi repeater Security : 64/128-bits WEP, TKIP, WPA, WPA2, AES, WPS Ethernet LAN IEEE802.3u 10/100Mbps 	<ul style="list-style-type: none"> USB2.0 Host for Storage (3G/4G dongle-optional) SD for storage Default Flash/DDR2 memory – 8MB/64MB FAT32/exFAT/NTFS/SAMBA P2P remote control (optional) 	 <ul style="list-style-type: none"> WiFi File and Video Storage