
WiPhone

USER MANUAL

2019/09/29

FCC/IC Compliance Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information:

FCC RF Exposure requirements: The highest SAR value reported under this standard during product certification for use next to the head with the minimum separation distance of 10mm is 1.49W/Kg. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

This product is compliance to FCC RF Exposure requirements and refers to FCC website

<https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm> search for FCC ID: 2AHUL-9474663.

EU – Declaration of Conformity:

Shenzhen MZJ Technology Co., Limited declares that WiPhone Model # N0C311 and N0C311P complies with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the Declaration of conformity is available on request.

Shenzhen MZJ Technology Co., Limited.
Room 803 Chevalier House 45-51 Chatham Road South
Tsim Sha Tsui Kowloon, Hong Kong

Caution:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209. This equipment should be installed and operated with minimum distance 10mm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux limites d'exposition DAS incontrôlé pour la population générale de la norme CNR-102 d'Industrie Canada et a été testé en conformité avec les méthodes de mesure et procédures spécifiées dans IEEE 1528 et IEC 62209. Cet appareil doit être installé et utilisé avec une distance minimale de 10mm entre l'émetteur et votre corps. Cet appareil et sa ou ses antennes ne doivent pas être co-localisés ou fonctionner en conjonction avec tout autre antenne ou transmetteur.

Overview

WiPhone is a unique, minimal phone.

It's designed to enable hackers by making it easy to extend and modify the electronics and software. Something typical phones are not good for.

WiPhone is also a VoIP mobile phone. It uses WIFI to make HD voice calls, for free. This means that there is no required service contract - and it's yours for life.

Version update records

Version number	File date	Update content
V1.4		The first release

Free Calling! No Hacking Required!

WiPhone is different beast from most smartphones these days. WiPhone uses the existing WiFi around you to make HD Voice calls. For free. Buy it once and it's yours.



The advertisement features a blue background with a green rounded button containing a white telephone handset icon and the text "Free Calling!". Below this, the text "HD Voice, No Service Contracts" is displayed in white. At the bottom center, there is a white rounded square containing a black smartphone icon with a blue Wi-Fi signal and the text "WiPhone" in black.

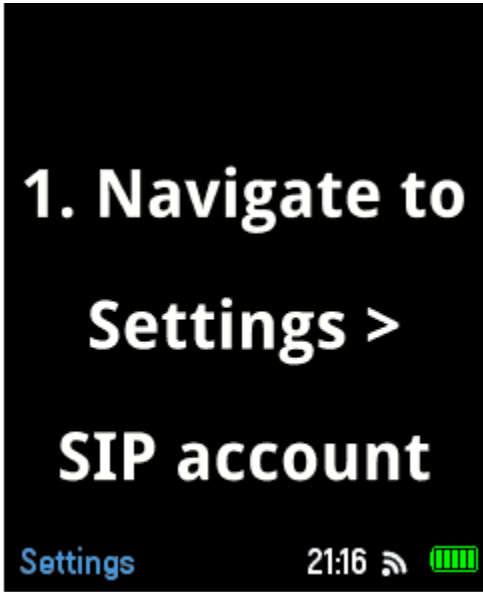
Works on most broadband WiFi networks (including most home WiFi connections).
No service contract required, and you can even upgrade the firmware or expand the hardware to do things it wasn't originally intended for.

HOW TO SET-UP WiPhone and SIP account:

Free calling starts with a SIP account. SIP stands for Session Initiation Protocol, and it's a standard way to make call over the internet. VoIP is a related term that you may have heard of. There are commercial services that provide SIP/VoIP accounts, and some of them have free accounts. Most consumers use VoIP apps like Skype and Whatsapp, but we can still use the underlying technology directly. After the campaign we'll spend more time testing services to make our software and instructions work as seamlessly as possible.

Step 1: Get a SIP account (many different ways to do this, but we wrote up a simple [how-to](#) that might get you started).

Step 2: Log in on your WiPhone using the credentials from your SIP account (user name, password, and server):



**1. Navigate to
Settings >
SIP account**

SIP account



**Edit current network
Scan WiFi networks**

Select

Back

SIP account 21:17  

Name:
Andriy M.

User: andriy Server: sip2sip.info

SIP URI:
sip:andriy@sip2sip.info

Password:

Save Clear



Step 3: Make a Call:



Add Back

View contact

21:17  



opensips



sip:makukha@opensips.org



Call



Send message

Options

Back

Calling

21:17  

Making a call...



opensips

sip:makukha@opensips.org

Hang up

Call 21:17  

Call in progress



sip:makukha@opensips.org

ACK

Hang up

Call 21:17  

Hanging up



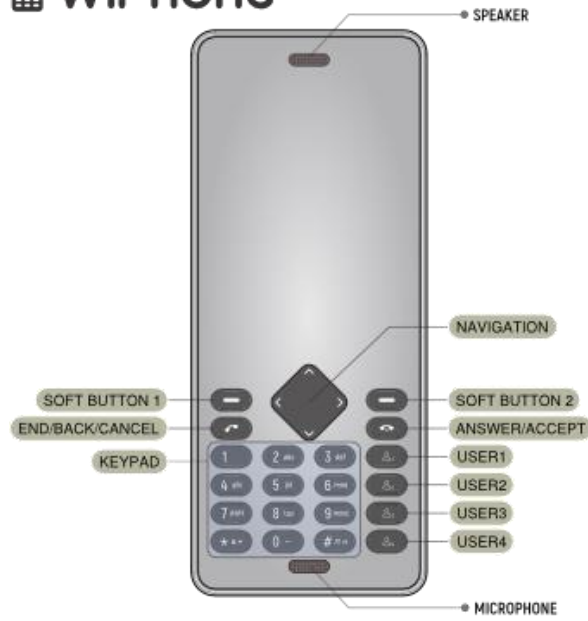
sip:makukha@opensips.org

ACK

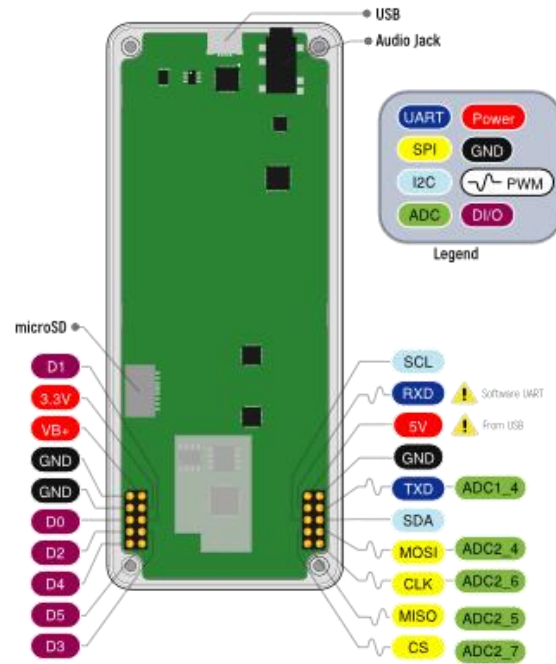
Hang up

That's it!

Product Picture:



ESP32 WiPhone Pinout



Electrostatic discharge caution:



Module will be damaged by electrostatic discharge, RFSTAR recommends that all the module should be dealt with under the following three preventive measure:

1. Must follow the anti-static measures, cannot barely hand module.
2. Module must be placed in the storage area to prevent electrostatic.
3. Anti-static circuit of high voltage input or high frequency input should be considered during the product design.

To the result of the static electricity may result in minor performance degradation on to the failure of the entire equipment. Due to the parameters of the very s mall changes can lead to the value of the equipment does not meet the certification requirements, thereby module will be more vulnerable to damage.