



CUBIEBOARD

<http://cubieboard.org>

CubieAIO Android Get Start

CubieAIO

Website: <http://cubieboard.org/>
Email: support@cubietech.com



Version	Author	Modification	Check
V-1.0	Andy	Init version	Aaron

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1. Introduction

CubieAIO (Cubie All In One miniPC) is a baseboard for Einstein-A20 , Using A20 chip, the minimum software ecosystem based on Cubieboard2's SDK. We customize the Android system for CubieAIO, this document will help CubieAIO android users to get start quickly . The home page and APK page are as below.

2. Summary

This system have WIFI module, bluetooth module, UART, ADB debugging and serial debug etc. support AV&HDMI&LCD display output. Also have 3G/4G module, TF (SD) card extension module and a variety of sensors. Compatible with the MIDI RS232 interface, MIC1, PH/MIC2 recording and other functions.

3. System Settings

3.1. Display

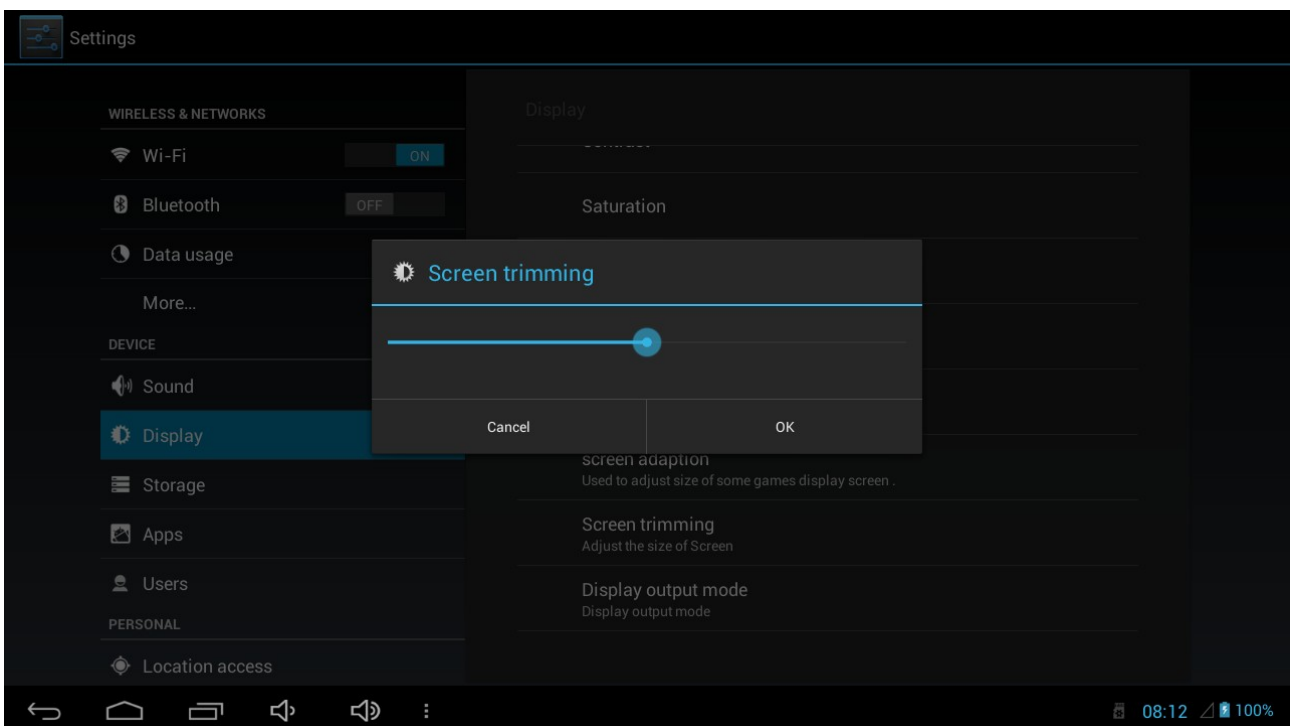
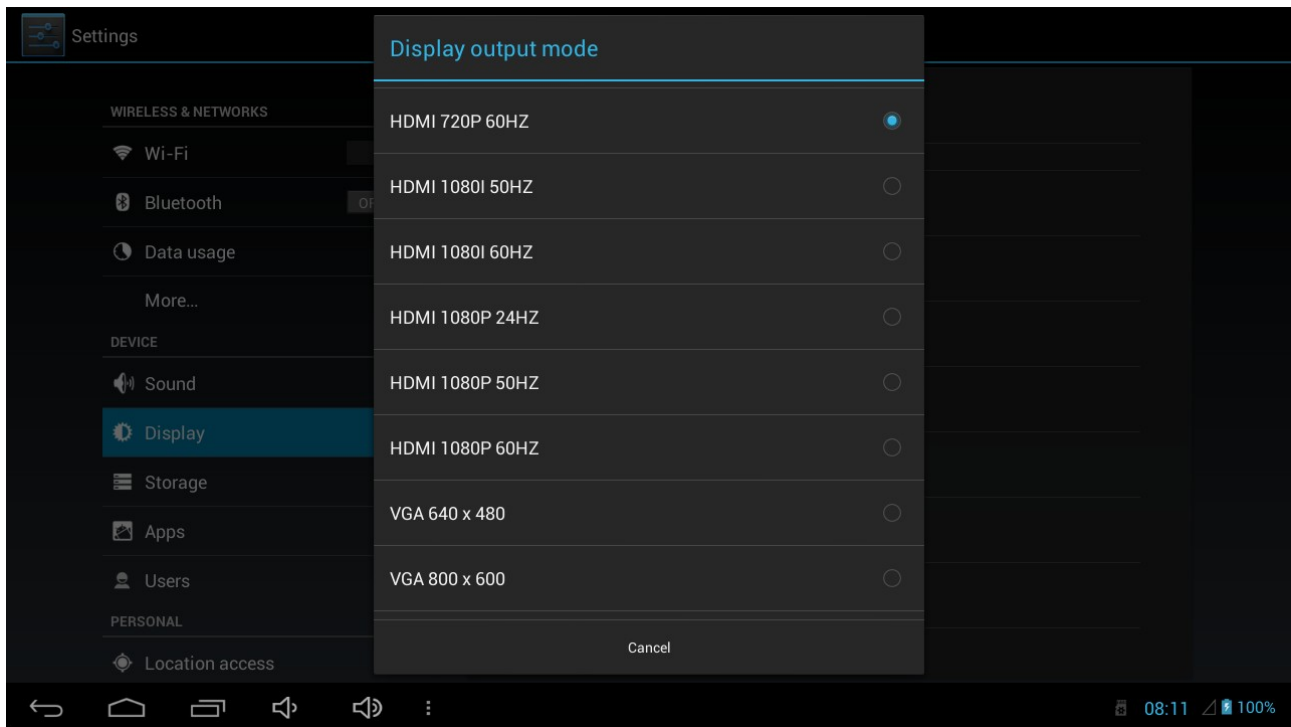
CubieAIO support three types of output, AV, HDMI and LCD .

3.2. Display Strategy

System support Display HDMI, hotplug also supported. Support LCD Display and TP touch screen.

3.3. Display Resolution

LCD does not support switching resolution, The default HDMI display resolution is 720P, you can Switch resolution to adjust your HDMI monitor on system settings . You can also set screen percent to adjust your screen .

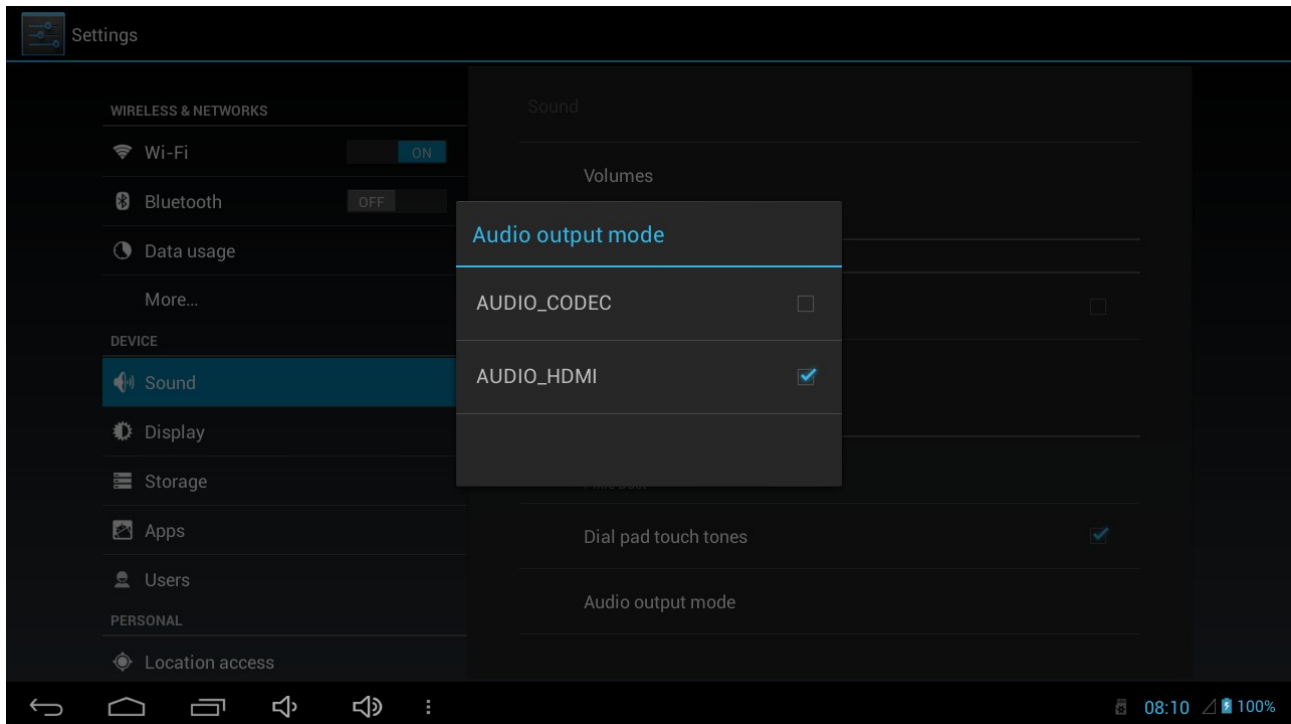


3.4. Audio

3.4.1. Audio Output

The system supports three kinds of audio output channels, which can be selected in the system settings.

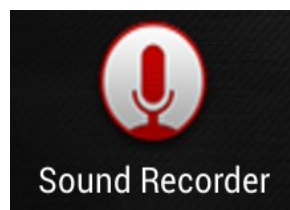
1) HP) 2) HDMI 3) HORN

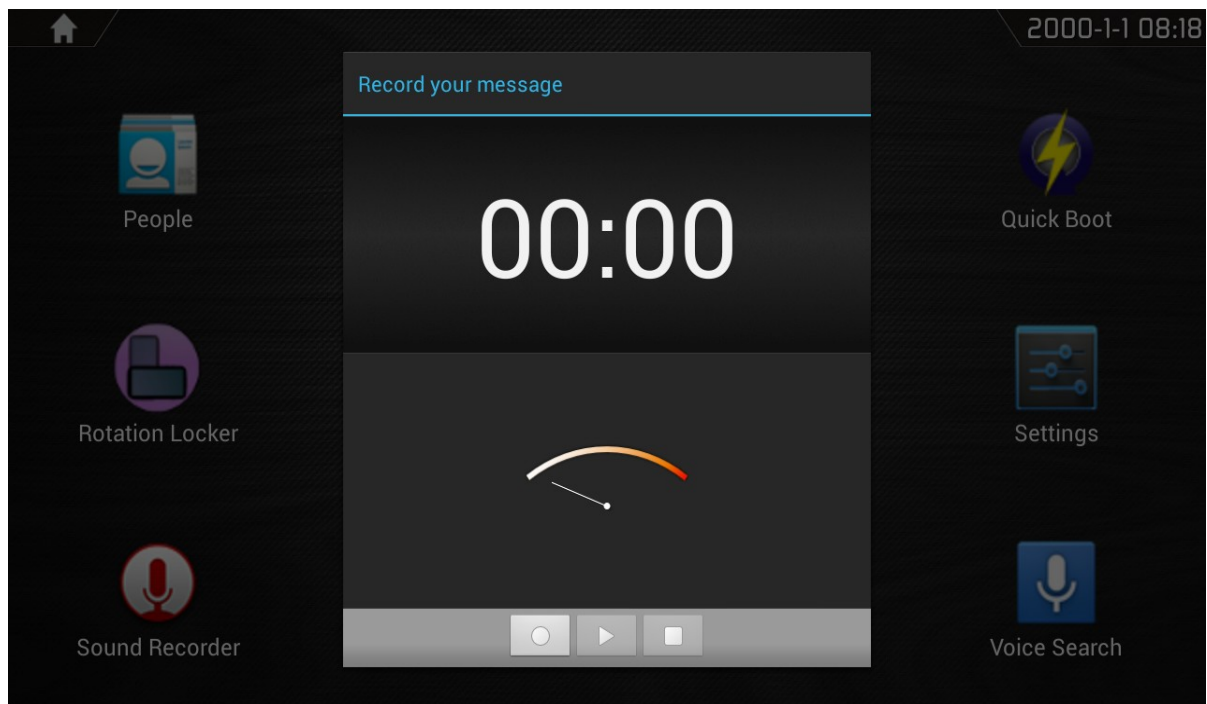


HDMI is the default audio output when the system is playing a video or music, so you can select different mode what you want before you use it. The system can be based on your choice to choose the output mode.

3.4.2. Audio Output

There are 2 audio input mode switching between HP MIC1 and MIC2 automatically. (Here is a pre-installed APK named “Sound Recorder”)





3.5. Input devices

3.5.1. Keyboard and Mouse

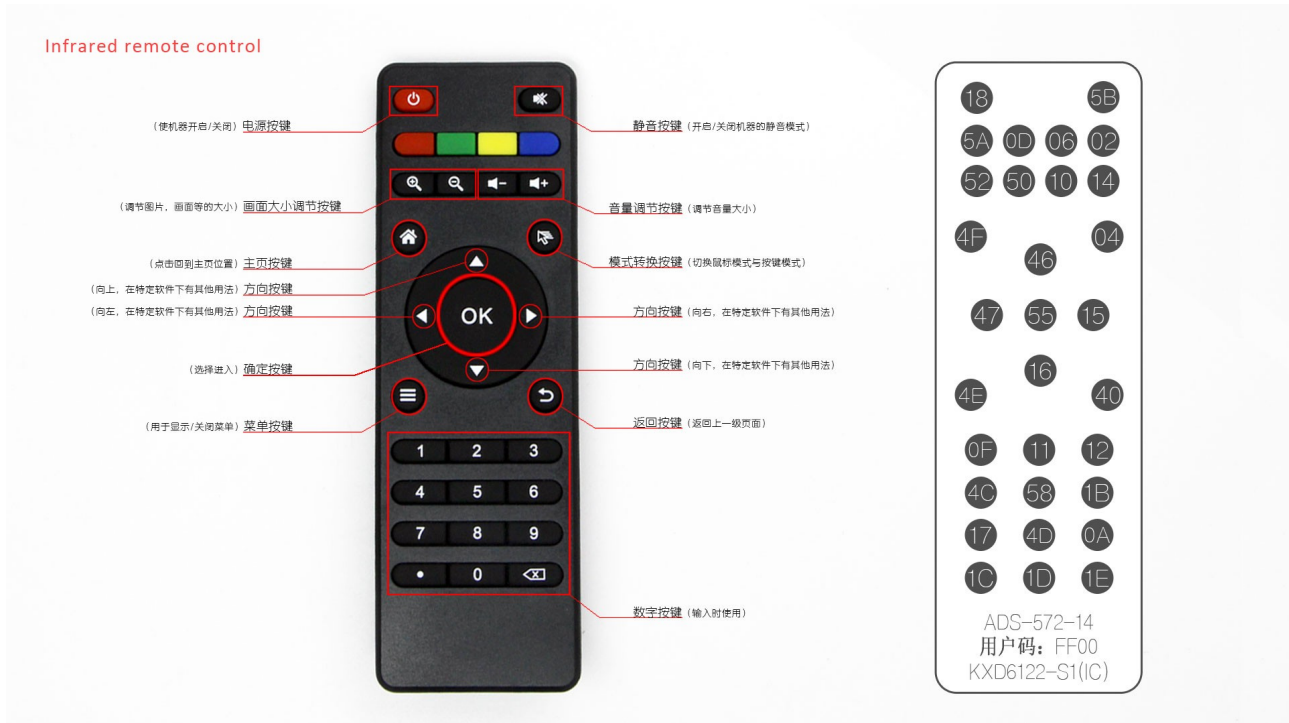
With the USB2.0 port ,you can use keyboard and mouse in this android version .

3.5.2. Infrared Remote Control

This is a homelet version android , infrared remote control is supported well in this system .
There is a IR control from Cubietech :

Power Button	Short pressing close screen,Long pressing poweroff or poweron the system.
Fuction Key	Red:Color options, Yellow: system settings
Home Button	Return to home page
Menu Button	Entering system setup mode
Mode Switch	Entering mouse input mode

Other Fuction Definition:



3.6. Debug Port

3.6.1. UART0

This tool can help you debug system and get all system log even when in u-boot stage



More help can visit this website get more docs and driver support:

<http://dl.cubieboard.org/tools/Usb-Uart-Cable/>

3.6.2. OTG ADB

The system is opened USB ADB debug , you can get all root permissions.

3.6.3. RS232

We use RS232's serial port, Communicate with each other through APK. According to the data sent and received to determine whether the serial port function can be used. This system is already configured with four serial ports “ttyS3, ttyS4, ttyS5, ttyUSB0” .

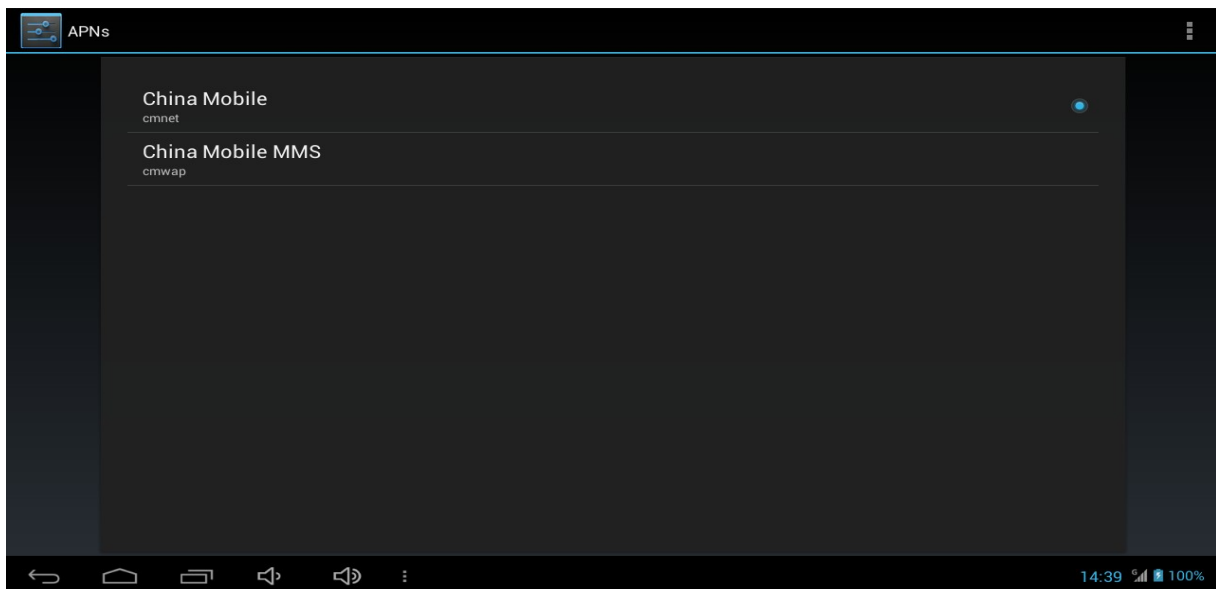


3.7. 3G/4G

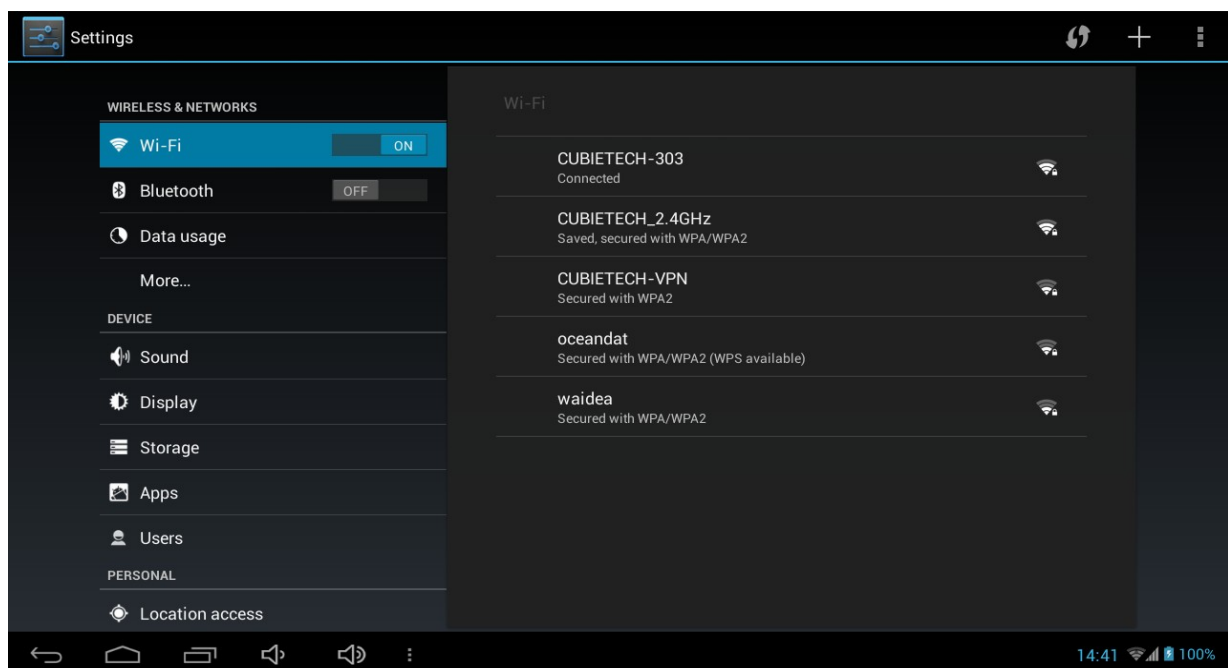
Insert SIM card and use 3G/4G module to the Internet. This module support Android version: Android 2.x, Android 3.x, Android 4.x . Support function: SMS, VOICE CALL, DATA SERVICE, PHONEBOOK.

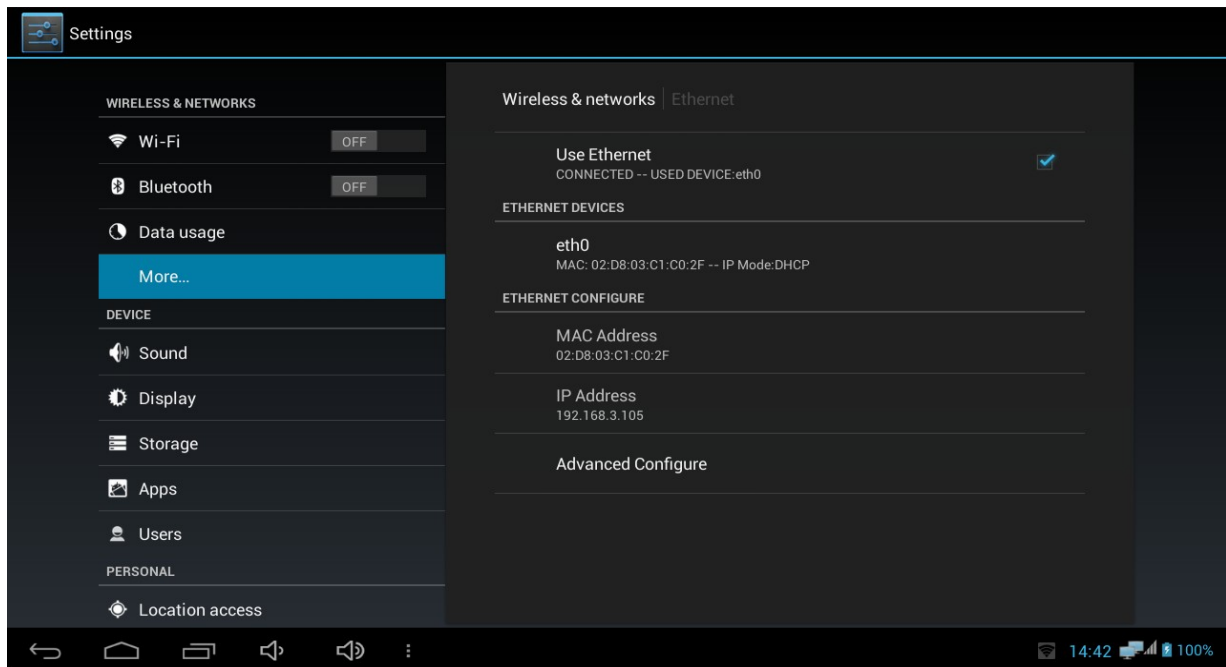
However, the system without a call function. It only carries on the simple function. Such as data communication and surf the Internet.

You should use the Standard SIM card. Mounting the Antennas on the board before insert the SIM card. which can be used to enhance the useful signal , It may not be networked if the signal too weak. There is a picture below, You can find an icon in the lower-right corner, and you can check APNs in system settings.



If you connect WIFI, Wired network and insert SIM card. The system will be intelligent to choose.



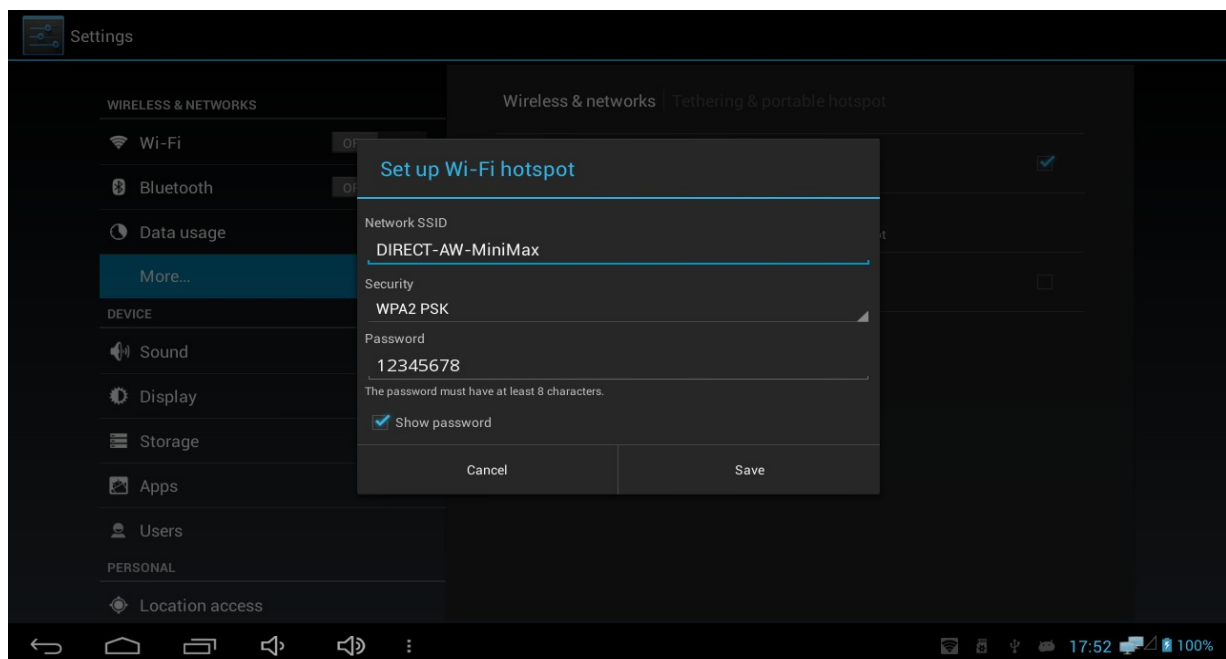


3.8. WIFI

3.8.1. Hotspot

When you connect with Ethernet, you can share network by WIFI hotspot :

You can modify the hotspot “name” and “password” :

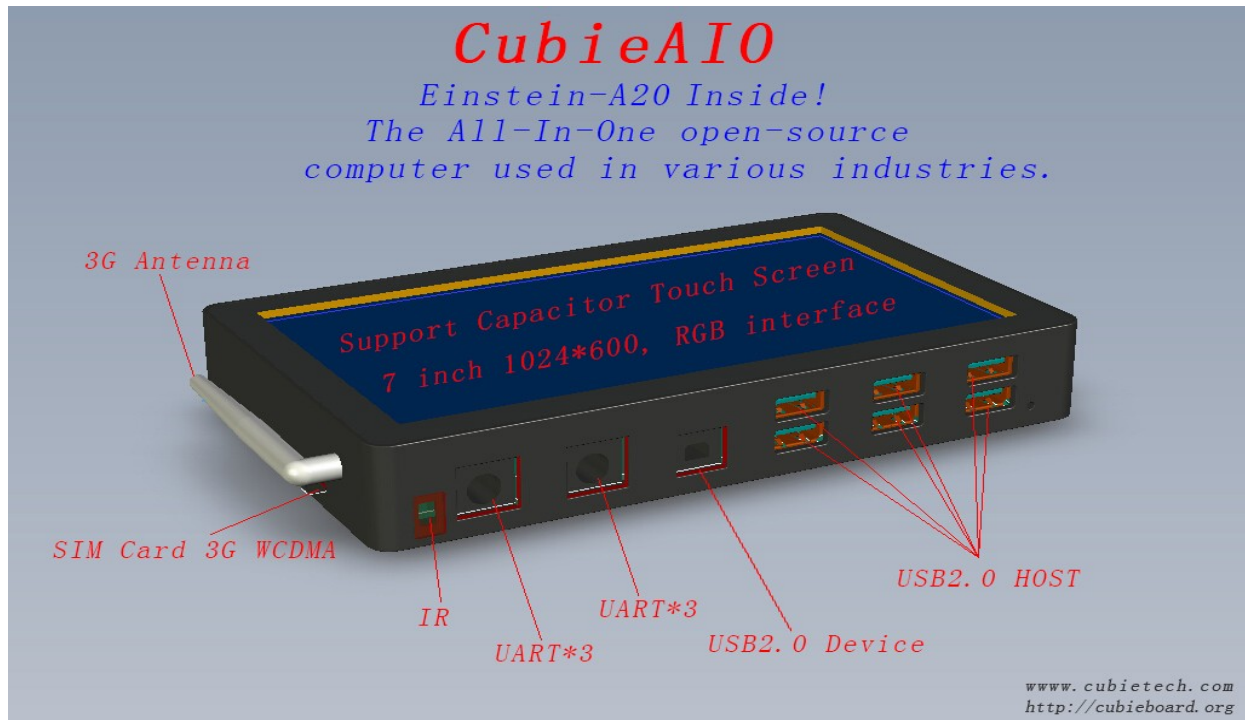




3.8.2. WIFI signal

The system configuration of useful “wifi antenna”, in order to enhance the signal.

3.9. Other



3.9.1. Buzzer

Place a buzzer On the CubieAIO bottom board, which can be used for warning.

3.9.2. USB

The system is equipped with 6 USB interface.

3.9.3. SATA

The system support mSATA (mini-SATA) is a mini version , Maximum can be supported to 512G.