VoCore
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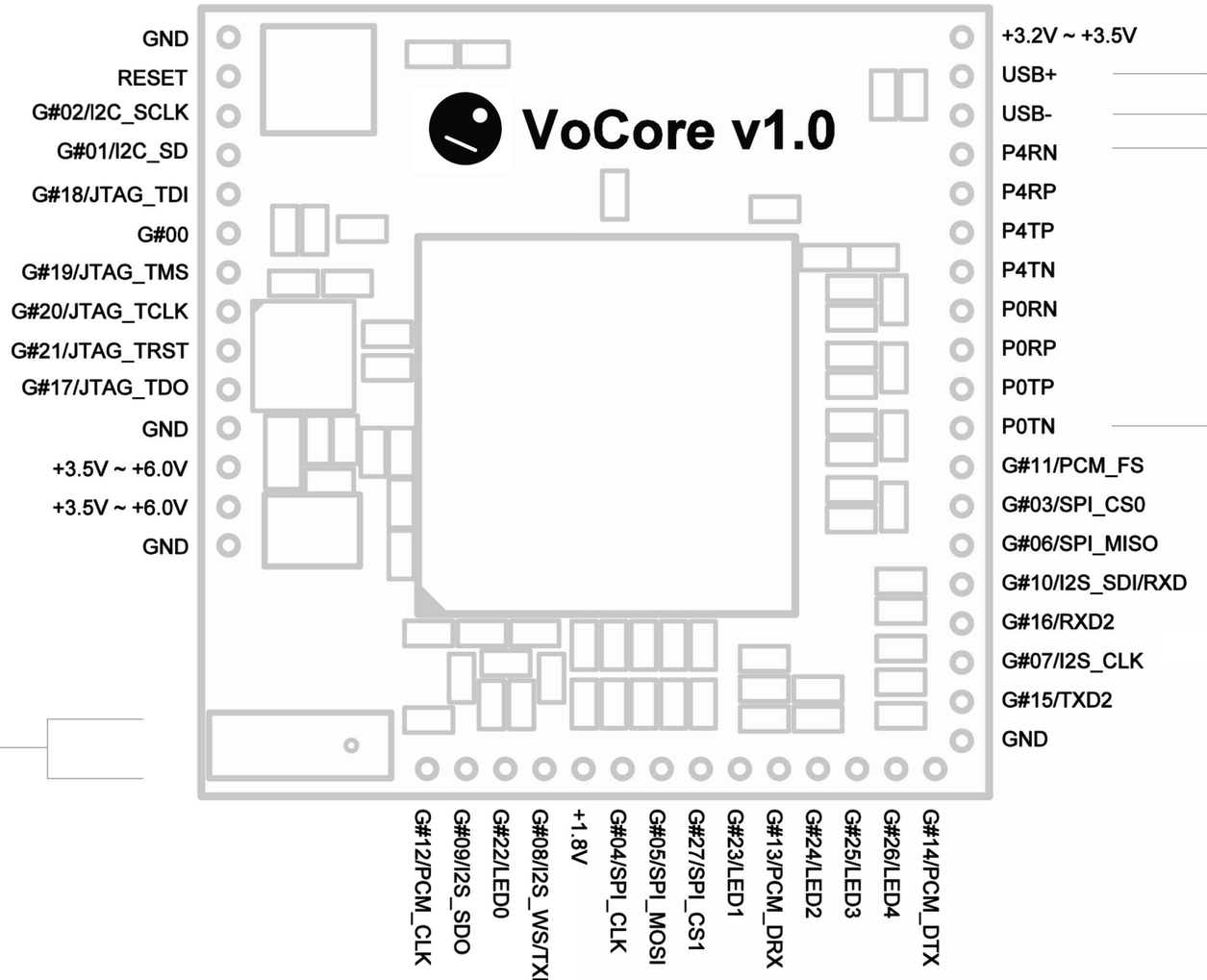
User's Guide

Tiny Size
25.4mm x 25.4mm x 3.4mm



Software
OS: OpenWrt (Linux 3.10.44)
GUI: LuCI
IP: 192.168.61.1
Login: root
Password: vocore

CPU
360MHz, MIPS 24Kec

Memory
133MHz, 32MB

Input Voltage
3.2V ~ 6.0V

WIFI
2.4GHz, 802.11n, up to 150Mbps

USB 2.0
480M, High-Speed

Ethernet
Two ports, 10/100M

GPIO Pins
28

Interfaces
UART, SPI, I2C, I2S, PCM, JTAG

Flash Memory
SPI, 8MB, 104MHz

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VoCore v1.0 Dock

Size

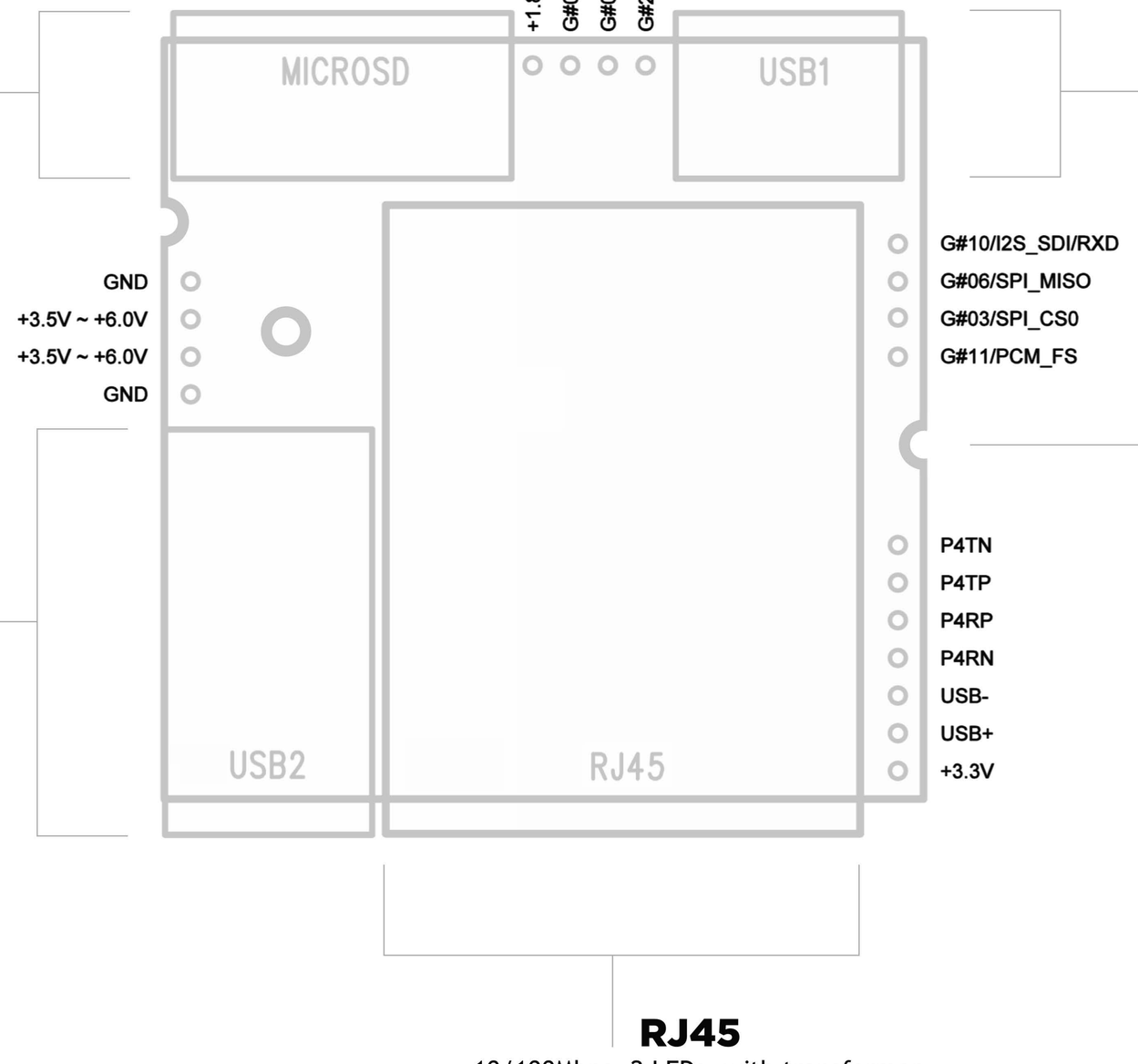
27.4mm x 26.2mm x 16.4mm

MicroSD

SPI micro SD slot, up to 30MHz

USB1

Connect to USB power supply(+5.0V)



Screw Hole

2.0mm, two half, one full

USB2

USB2.0 host, using USB+, USB-

RJ45

10/100Mbps, 2 LEDs, with transformer

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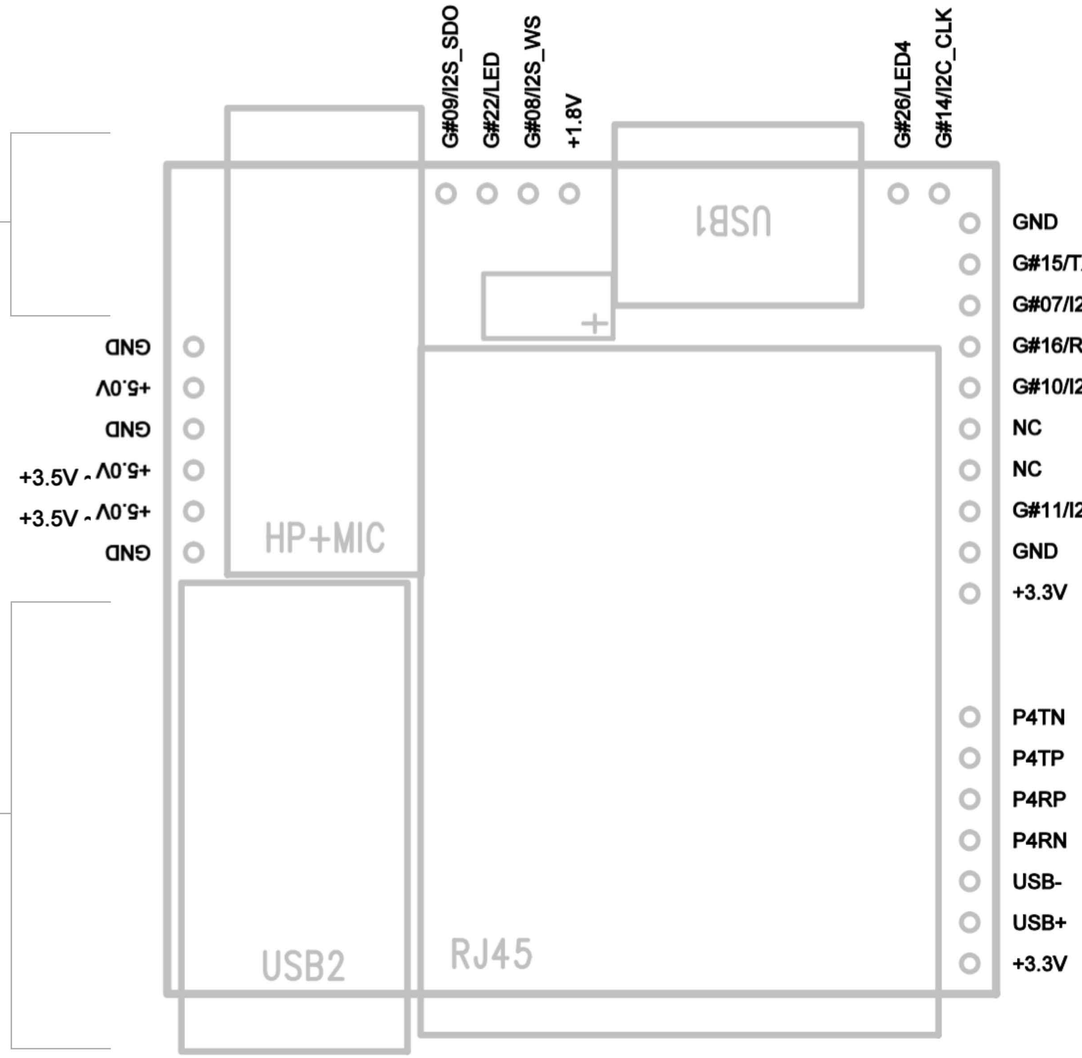
VoCore v1.0 Dock 2.0

Headset Jack

3.5mm jack for headphone & microphone



USB1

Connect to USB power supply(+5.0V)

USB2

USB2.0 host, using USB+, USB-

RJ45

10/100Mbps, 2 LEDs, with transformer

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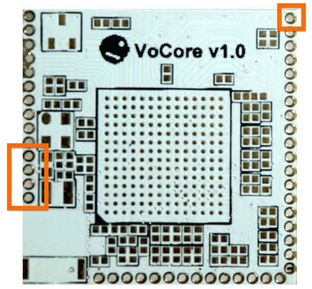
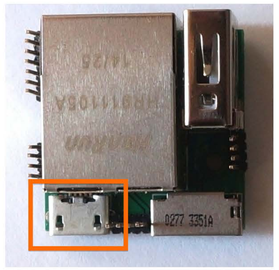
Power



Without Dock
Connect to 3.2V~6.0V & GND



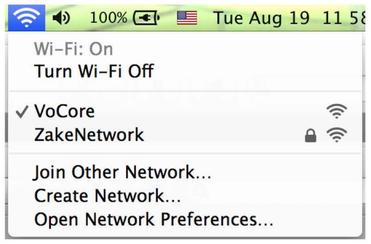
With Dock
Connect to USB1

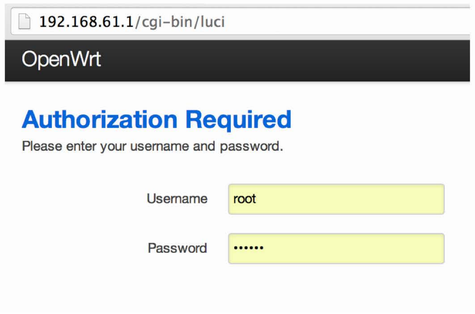
Boot

Booting will require about 30 seconds (the LED will light for 15 seconds).

Connect

Find VoCore-XXXXXX in your computer wifi AP list.



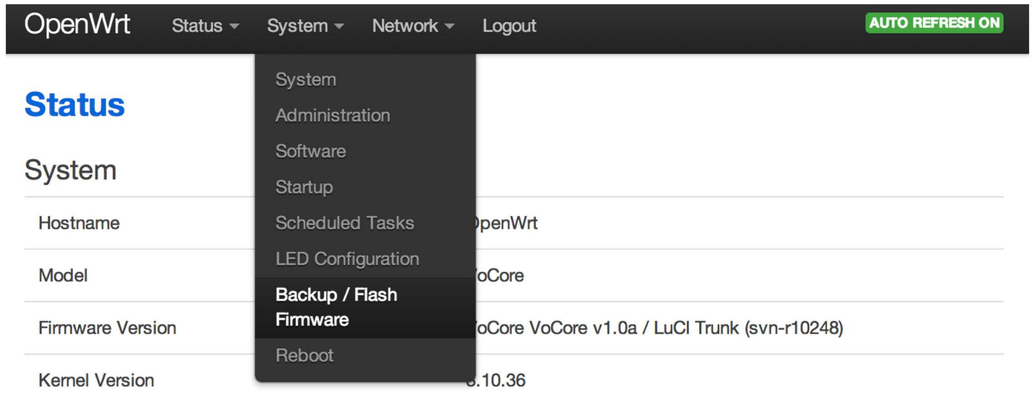


LuCI Panel

open 192.168.61.1 to the LuCI control panel
Login: root / vocore

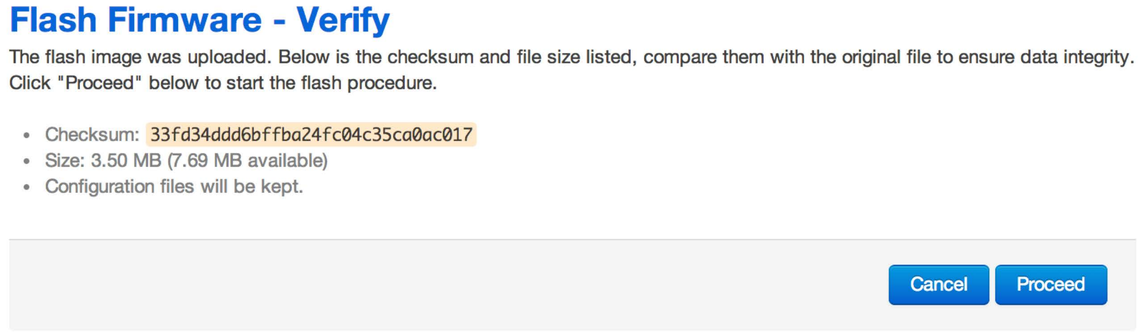
Update Firmware

1. Click on Backup / Flash Firmware

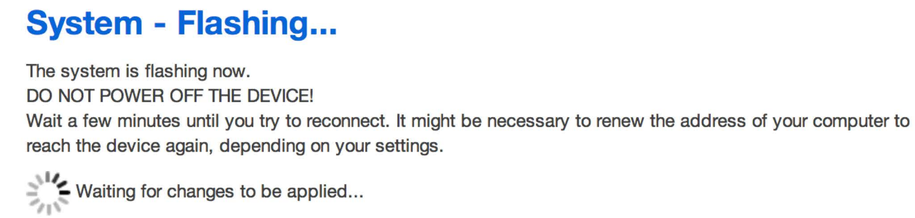


2. Uncheck "Keep Settings", click on "Choose File" to find your firmware. Then click on "Flash Image" to load your firmware to memory.

3. Press "Proceed" to continue.



4. Wait about 2~3 minutes. Once the new firmware ready, LuCI panel opens automatically



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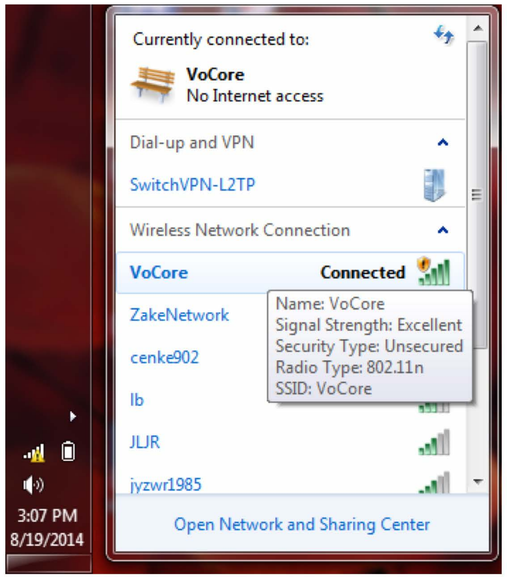
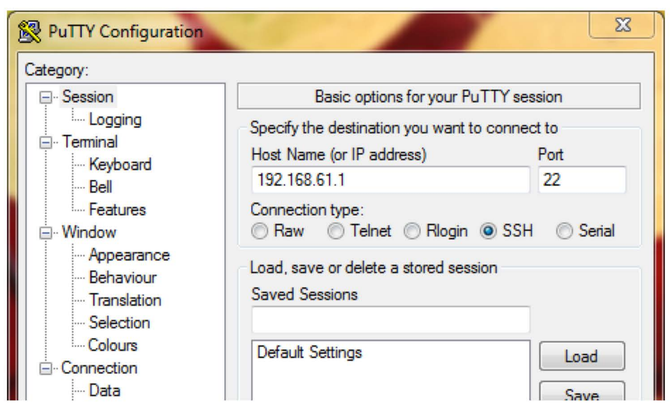
Connect through SSH : Windows

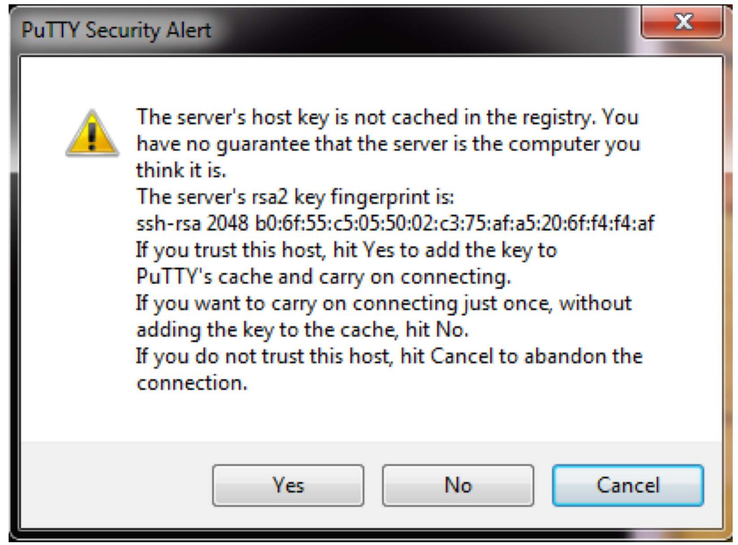
1. Find SSID: VoCore_XXXXXX in your connection list. Connect to it.



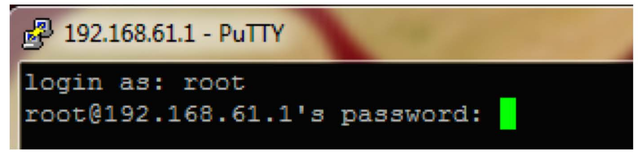


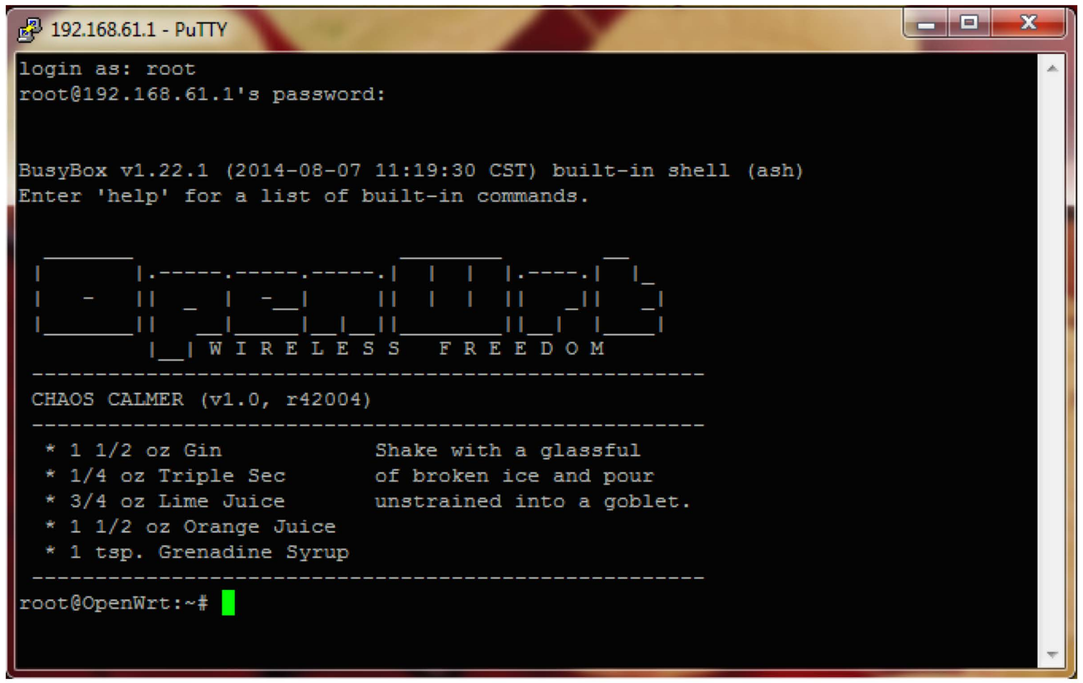
2. Use PuTTY or other SSH client connect to 192.168.61.1, port 22

3. Press 'Yes' button. (only show once)



4. Login As: root
Password: vocore





5. There is the OpenWrt welcome message, now we can control it from console. Your VoCore is ready!

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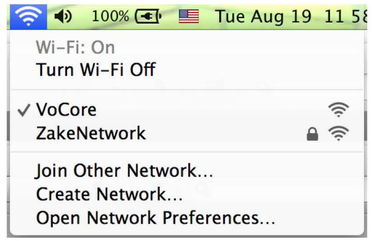
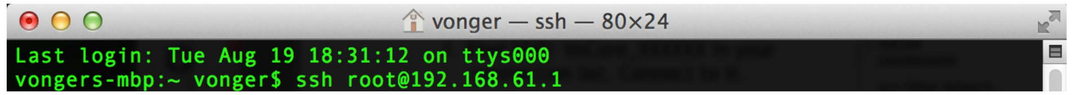
Connect through SSH : MacOS

1. Find SSID: VoCore_XXXXXX in your connection list. Connect to it.

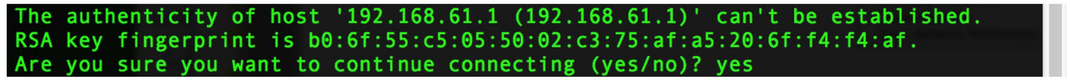


2. Run Terminal in Application/Other

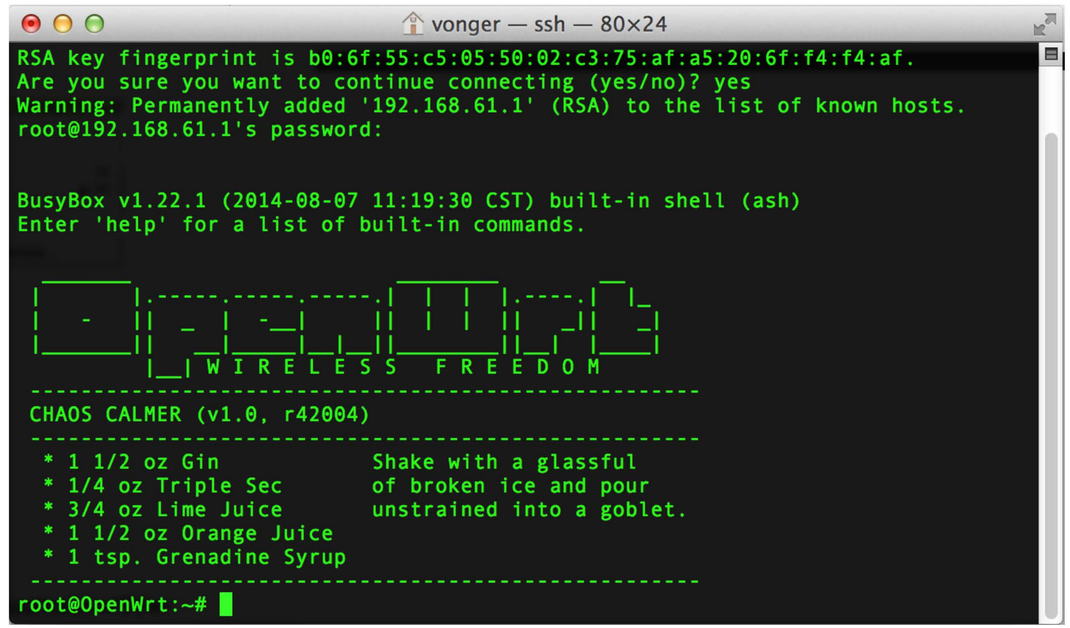
3. Input command "ssh root@192.168.61.1"



4. Input "yes" to continue. (only show once)



5. Password is vocore, press enter to continue.



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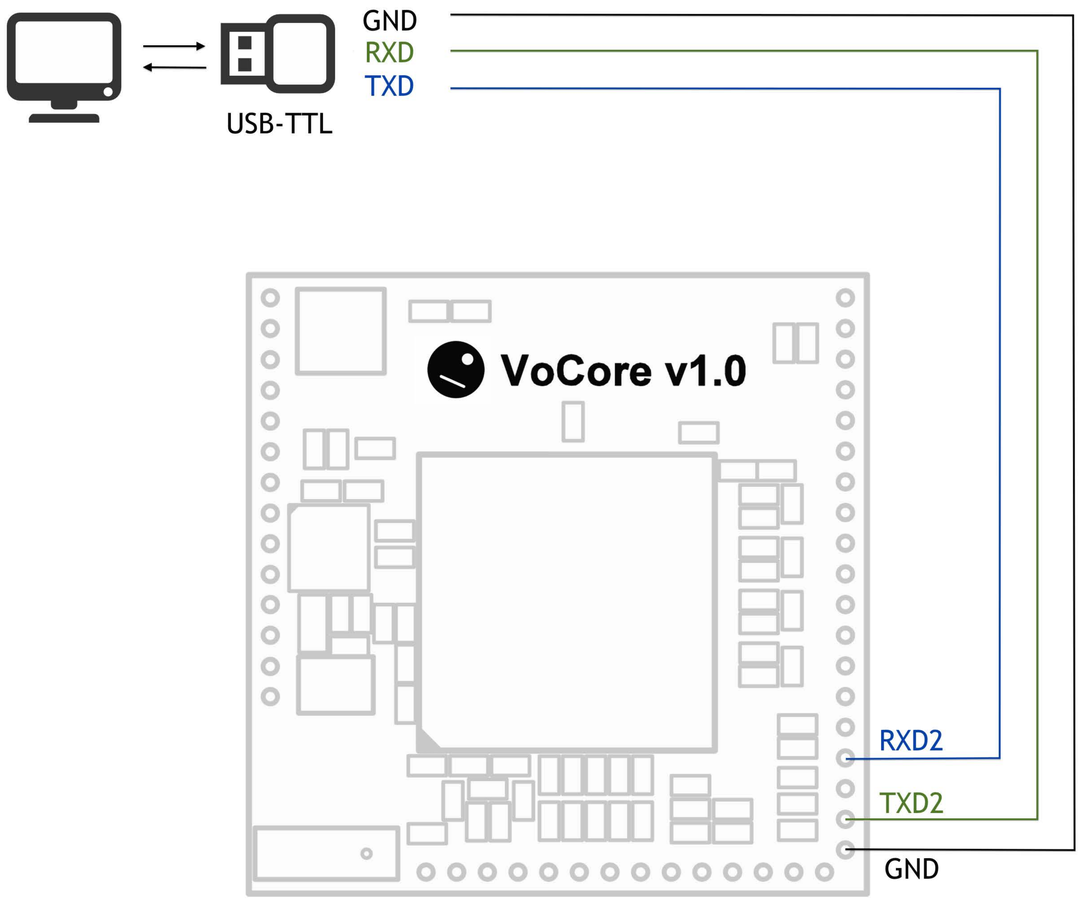
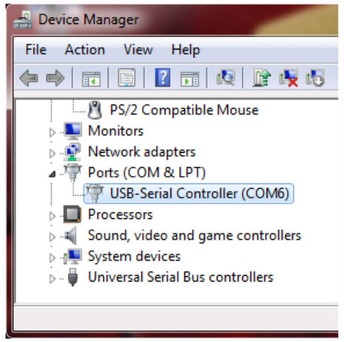
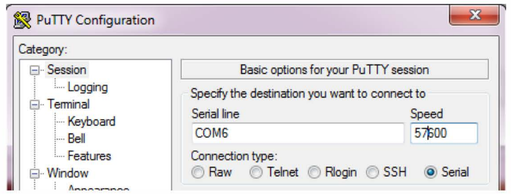
Connect through TTL : Hardware

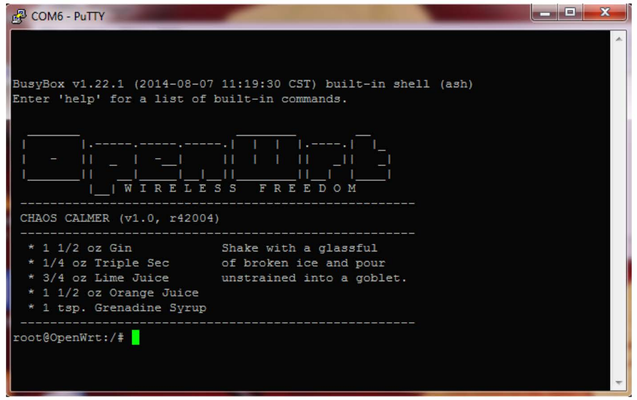


Connect through TTL : Software

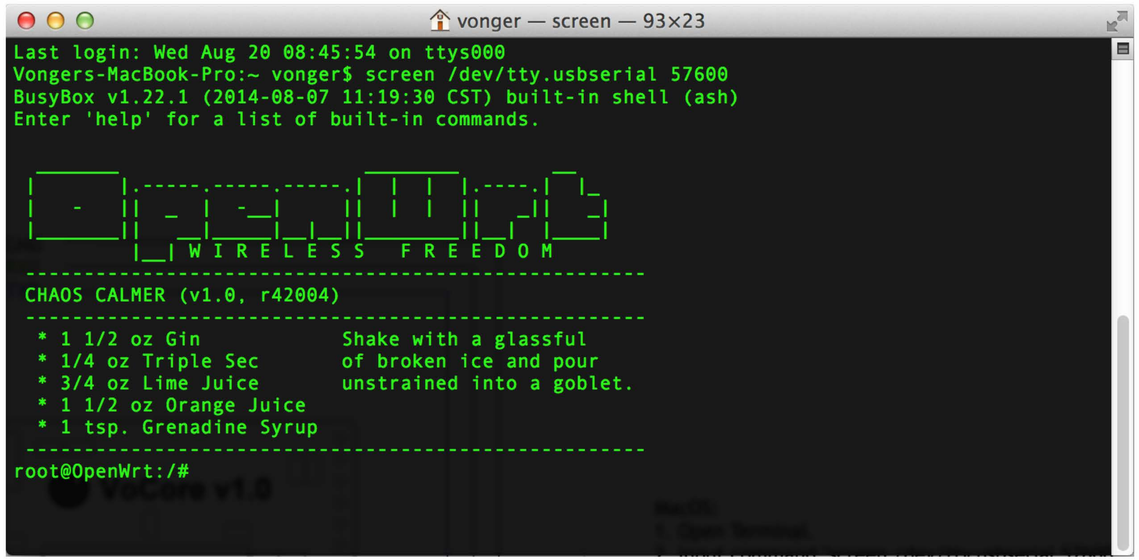
Windows:
1. Setup your usb-serial in device manager.
2. Open PuTTY or other UART compatible client.
3. Set your serial port speed to 57600bps(8n1, default).
4. Press "OK" to connect, then press "Enter".
5. If VoCore is ready, it will show welcome message.







MacOS:
1. Open Terminal.
2. Input command "screen /dev/tty.usbserial 57600"
3. Press "Enter".
4. If VoCore is ready, it will show welcome message.



Other OS:
TTL Default Parameters: 57600bps, 8 data bits, no parity, 1 stop bit.

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Principle Diagram