

# Raspberry Pi 開箱

## Resource

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- [APC - \\$49](#)
- [Android MK802 Mini PC - \\$74](#)

- [CuBox](#) - \$139.99~\$159.99
- [Ninja Blocks](#) - \$199

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- □□□□□ - [Enhanced cTorrent](#) - □□□□□□
- □□□□□ - [□□\\_1](#)
- □□□□□□□□□□□□ audio playback□video □□□□□□□□
- □□□□□□□ - [□□\\_1](#)
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## Configuration

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```
sudo apt-get update
sudo apt-get upgrade
```

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□□□ Raspberry Pi □□□□□□□□□□□□

```
sudo amixer cset numid=3 1
```

□□□ numid=3□□□□□□□□□□□□□□

```
$ amixer controls
numid=4,iface=MIXER,name='Master Playback Switch'
numid=3,iface=MIXER,name='Master Playback Volume'
numid=2,iface=MIXER,name='Capture Switch'
numid=1,iface=MIXER,name='Capture Volume'
```

3 □□□□□ 1 □□□□□□□□□□

0:□□, 1:□□, 2:HDMI

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```
sudo aplay /usr/share/sounds/alsa/Front_Center.wav
```

## Wi-Fi

lsusb

```
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 002: ID 0424:9512 Standard Microsystems Corp.
Bus 001 Device 003: ID 0424:ec00 Standard Microsystems Corp.
Bus 001 Device 004: ID 0bda:8176 Realtek Semiconductor Corp. RTL8188CUS
802.11n WLAN Adapter
```

lsmod

Module	Size	Used by
snd_bcm2835	12808	0
snd_pcm	74834	1 snd_bcm2835
snd_seq	52536	0
snd_timer	19698	2 snd_seq,snd_pcm
snd_seq_device	6300	1 snd_seq
snd	52489	5
snd_seq_device,snd_timer,snd_seq,snd_pcm,snd_bcm2835		
snd_page_alloc	4951	1 snd_pcm
8192cu	485042	0

iwconfig

lo no wireless extensions.

wlan0 unassociated Nickname:"<WIFI@REALTEK>"  
Mode:Managed Frequency=2.412 GHz Access Point: Not-Associated  
Sensitivity:0/0  
Retry:off RTS thr:off Fragment thr:off  
Power Management:off  
Link Quality:0 Signal level:0 Noise level:0  
Rx invalid nwid:0 Rx invalid crypt:0 Rx invalid frag:0  
Tx excessive retries:0 Invalid misc:0 Missed beacon:0

eth0 no wireless extensions.

/etc/network/interfaces

```
auto lo
iface lo inet loopback

iface eth0 inet dhcp

allow-hotplug wlan0
# wlan0
# DHCP

auto wlan0
iface wlan0 inet dhcp

# wlan0 IP
iface wlan0 inet manual
address 192.168.1.100
netmask 255.255.255.0
```



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## □ Raspberry Pi □□ AirPlay Audio Receiver

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- [Turn a Raspberry Pi Into an AirPlay Receiver for Streaming Music in Your Living Room](#)
- [Raspberry Pi Shairport build instructions](#)

### Step 1. □□□□□□

□□□□□□□□ update □ upgrade □□□□□□

```
sudo apt-get install git libao-dev libssl-dev libcrypt-openssl-rsa-perl  
libio-socket-inet6-perl libwww-perl avahi-utils libmodule-build-perl
```

### Step 2. □□ iOS 6

```
git clone https://github.com/njh/perl-net-sdp.git perl-net-sdp  
cd perl-net-sdp  
perl Build.PL  
sudo ./Build  
sudo ./Build test  
sudo ./Build install  
cd ..
```

### Step 3. □□□□□ shairport

```
git clone https://github.com/hendrikw82/shairport.git  
cd shairport  
make
```

□□□□□□□□□□□□-a □□□□□ AirPlay client □□□□□□□□□□

```
./shairport.pl -a AirPi
```

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```
□□ shairport □□□□□□□□□□"Audio StreamV6w4PZMy1gXhZjsr1UVl3A==ALSA lib  
pcm.c:2217:(snd_pcm_open_noupdate) Unknown PCM cards.pcm.front"□□□□□□□□  
/usr/share/alsa/alsa.conf□□□□
```

```
pcm.front cards.pcm.front
```

□□

```
pcm.front cards.pcm.default
```

#### Step 4. □□ shairport

□□ shairport□□□□□□□□□□

```
cd shairport
sudo make install
sudo cp shairport.init.sample /etc/init.d/shairport
cd /etc/init.d
chmod a+x shairport
sudo update-rc.d shairport defaults
```

```
□ /etc/init.d/shairport □ DAEMON_ARGS □□□□□□□□□□ AirPlay receiver □□□□
```

```
DAEMON_ARGS="-w $PIDFILE -a AirPi"
```

#### □ **MPD** □□□□□□

- [MPD □□□□](#)
- iOS client □□□ MPoD
- [Setting up a headless Raspberry Pi as a Music Player Daemon server](#)

□□ MPD□

```
sudo apt-get install mpd
```

MPD □□□□□□□ /etc/mpd.conf□□□□□□□□□□□□

```
music_directory          "/net/servername/path/to/music"
bind_to_address           "any"
audio_output {
    device                 "hw:1,0"    # optional. Keep 0,0 if using the Pi audio
}
mixer_type
```

#### **BT** □□

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- [□□□□□□□□□□ Raspberry Pi + Transmission-daemon](#)
- [Raspberry Pi as Budget BitTorrent Server](#)
- [□ Raspberry Pi □□□ BT □□□□](#)
- [Raspberry □ transmission BT □□□](#)

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