



How to install OpenWiFi image

1 Install via uboot

1. Set up a TFTP server.
2. Log in to the AP via the serial port.
 - a) Some APs come with an exposed serial port by default—either USB or RJ45. Others don't expose one; in that case, you'll need to open the AP's enclosure and use DuPont jumper wires to connect to the serial header on the main board. (115200, 8N1)



Connection between TTL and AP:

TTL	AP
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Tx	Rx
Rx	Tx
GND	GND
VCC 3.3V	VCC 3.3V

3. Download the firmware to the AP via TFTP and write into the AP's nand. For Qualcomm-based APs, the procedure is as follows:

```
setenv ipaddr 192.168.11.200
```

```
setenv serverip 192.168.11.30
```

```
ping ${serverip}
```

```
tftpb 0x44000000 openwrt-ipq50xx-xxxx-squashfs-nand-factory.bin
```

```
imxtract 0x44000000 ubi
```

```
flash rootfs
```

```
reset
```

2 Upgrade via you old AP system

1. Copy the new AP firmware (usually a .tar file) to the AP using the scp command.
2. `sysupgrade -F xxx.tar`

3 Other scenarios

For MTK-based APs, the serial-port upgrade procedure is as follows:

1. Put the latest sys upgrade image to TFTP server and make it short name like fw.bin
2. Select Upgrade firmware option



```
*** U-Boot Boot Menu ***

1. Startup system (Default)
2. Upgrade firmware
3. Upgrade bootloader
4. Upgrade bootloader (advanced mode)
5. Load image
0. U-Boot console

Press UP/DOWN to move, ENTER to select
```

3. Select upgrade firmware option via TFTP and then enter info of device and TFTP server

```
*** Upgrading Firmware ***

Available load methods:
0 - TFTP client (Default)
1 - Xmodem
2 - Ymodem
3 - Kermit
4 - S-Record

Select (enter for default):

Input U-Boot's IP address: 172.30.55.80
Input TFTP server's IP address: 172.30.55.30
Input IP netmask: 255.255.0.0
Input file name: fw.bin
```

4. Then wait for it to download and flash image:



4 Reference

The TFTP download address may vary by AP model. This document only covers the most common upgrade methods. If your AP is an unusual variant, please click the link below for community upgrade instructions.

<https://telecominfraproject.atlassian.net/wiki/spaces/WIFI/pages/2634809391/Sonicfi+RAP7110C-341X>

Please note: accessing this link requires an account with the community. If you don't have one, you'll need to sign up before you can view the upgrade guide.