

# BananaPro/Pi:Add Wifi driver

From BananaPro/Pi

## Overview

There is AP6181 Wifi module on the bananaPro,so we can install the wifi driver in order to support many applications which is related with the WIFI.  
Some system which can be downloaded in <http://www.lemaker.org/mirror> has provided wifi driver by default.  
but the other do not have the wifi driver.If you want to add wifi driver,you may operate step by step as follows.

## Implementation

**Step 1:** If you have not the BSP and linux kernel repository,you should get BSP and kernel repository firstly.

```
sudo git clone https://github.com/LeMaker/lemaker-bsp.git
sudo git clone https://github.com/LeMaker/linux-sunxi.git
```

**Step 2:** Set default kernel configuration:

```
cd lemaker-bsp/linux-sunxi/
sudo make ARCH=arm CROSS_COMPILE=arm-linux-gnueabihf- sun7i_defconfig
```

**Step 3:**You can open some kind of kernel configuring software or close the useless kernel configuration by editing your kernel configuration:

```
sudo make ARCH=arm CROSS_COMPILE=arm-linux-gnueabihf- menuconfig
```

According to the flowing path,select “M” for AP6210. Device Drivers ---> [\*] Network device support ---> [\*] Wireless LAN ---> <M> AMPAK AP6210 wireless/bluetooth module support  
(/lib/firmware/ap6210/fw\_bcmxxxx.bin) Firmware path (/lib/firmware/ap6210/nvram\_apxxxx.txt) NVRAM path

**Step 4:** Building uImage and modules:

```
sudo make ARCH=arm CROSS_COMPILE=arm-linux-gnueabihf- uImage
sudo make ARCH=arm CROSS_COMPILE=arm-linux-gnueabihf- modules
```

**Step 5:** create the full module tree:

```
sudo make ARCH=arm CROSS_COMPILE=arm-linux-gnueabihf- INSTALL_MOD_PATH=output modules_install
```

```
arch/arm/boot/uImage
output/lib/modules/3.4.103/
```

**Step 6:** Copy *arch/arm/boot/uImage* file over to */boot* on board and copy *output/lib/modules/3.4.103/kernel/drivers/net/wireless/ap6210/ap6210.ko* file over to */lib/modules/3.4.103/kernel/drivers/net/wireless/ap6210/* on board ,and then install it into your kernel with the following commands (on the device as root):

```
modprobe -r ap6210
install -p -m 644 ap6210.ko /lib/modules/3.4.103/kernel/drivers/net/wireless/
/sbin/depmod
modprobe ap6210
```

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