




WifiDocs/Driver/prism2 usb


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2. Support Channels	

See also [WifiDocs/Device/DWL-122](#) and [WifiDocs/Device/NetgearMA111](#) for help on configuration.

The prism2_* drivers for the Prism II chipset (1) are developed by the  linux-wlan (tm) Project. Unfortunately they are not actively developed (2) and have not been merged into the main kernel tree. Only a few Linux Wireless Extensions are supported, which makes it difficult to use the driver together with for instance NetworkManager. The Ubuntu kernel includes the prism2_* kernel modules from the linux-wlan project. The linux-wlan-ng package in Ubuntu ships the linux-wlan-ng user space utilities/scripts that integrates with the ifupdown utilities. This works partly with the Gnome network configuration *network-admin* (3).

(1) For more information on the Prism II cards, see  http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Linux.Wireless.drivers.802.11b.htm

(2)  <http://lists.linux-wlan.com/pipermail/linux-wlan-announce/2005-August/000095.html>

(3) For related bugs, see the  linux-wlan-ng package in launchpad.

2.1. Supported devices


The following USB devices are handled by the prism2_usb driver. Use `lsusb` to find your USB device's Vendor and Product ID. (Info taken from the prism2_usb.c source file)

Vendor	Product	Name
03f3	0020	Adaptec AWN-8020 USB WLAN Adapter
0411	0016	Melco WLI-USB-S11 11Mbps WLAN Adapter
0411	0027	Melco WLI-USB-KS11G 11Mbps WLAN Adapter
0411	0044	Melco WLI-USB-KB11 11Mbps WLAN Adapter
045e	006e	Microsoft MN510 Wireless USB Adapter
049f	0033	Compaq/Intel W100 PRO/Wireless 11Mbps multiport WLAN Adapter
04bb	0922	IOData AirPort WN-B11/USBS
04f1	3009	JVC MP-XP7250 Builtin USB WLAN Adapter
0543	0f01	ViewSonic Airsync USB Adapter 11Mbps (Prism2.5)
066b	2212	Linksys WUSB11v2.5 11Mbps WLAN USB Adapter
066b	2213	Linksys WUSB12v1.1 11Mbps WLAN USB Adapter
067c	1022	Siemens SpeedStream 1022 11Mbps WLAN USB Adapter
07aa	0012	Corega Wireless LAN USB Stick-11
083a	3503	T-Sinus 111 USB WLAN Adapter
0846	4110	NetGear MA111
08de	7a01	PRISM25 IEEE 802.11 Mini USB Adapter
0967	0204	Acer Warplink USB Adapter
09aa	3642	Prism2.x 11Mbps WLAN USB Adapter
0ace	1201	ZyDAS ZD1201 Wireless USB Adapter
0b3b	1601	ALLNET 0193 11Mbps WLAN USB Adapter

0b3b	1602	ZyXEL ZyAIR B200 Wireless USB Adapter
0baf	00eb	USRobotics USR1120 Wireless USB Adapter
0bb2	0302	Ambit Microsystems Corp.
0cde	0002	Z-Com 725/726 Prism2.5 USB/USB Integrated
0cde	0005	Z-Com XI735 Wireless 802.11b USB Adapter
0d8e	7a01	PRISM25 IEEE 802.11 Mini USB Adapter
124a	168b	Airvast PRISM3 WLAN USB Adapter
124a	4017	Pheenet WL-503IA 802.11b USB Adapter
1668	0408	Actiontec Prism2.5 11Mbps WLAN USB Adapter
1668	0421	Actiontec Prism2.5 11Mbps WLAN USB Adapter
1668	6106	ROPEX FreeLan 802.11b USB Adapter
1915	2236	Linksys WUSB11v3.0 11Mbps WLAN USB Adapter
2001	3700	DWL-122 Wireless USB Adapter
2001	3702	DWL-120 Rev F Wireless USB Adapter
2821	3300	ASUS-WL140 Wireless USB Adapter
2821	3300	Hawking HighDB USB Adapter
2c02	14ea	Planex GW-US11H WLAN USB Adapter
413c	8100	Dell TrueMobile 1180 Wireless USB Adapter
50c2	4013	Averatec USB WLAN Adapter
8086	1111	Intel PRO/Wireless 2011B LAN USB Adapter
9016	182d	Sitecom WL-022 802.11b USB Adapter

2.2. WEP info

Whether you use *network-admin* or manually edit `/etc/network/interfaces`, make sure you enter the WEP key as `xx:xx:xx:xx:xx`, that is, with colons between every two hex digits. Note that

using *network-admin* to enter the WEP key does not work out-of-the-box in Ubuntu 6.06. See  bug #37451 for a patch for this. Without the patch, you'll have to add these lines to your *wlan0* configuration in `/etc/network/interfaces`:

```
wireless_mode managed
wireless_enc on
wlan_ng_key0 xx:xx:xx:xx:xx
```

Then unplug your device and reinsert again, and the network should come up by itself.


2.3. WPA info

No support in this driver

2.4. Alternative drivers

Note that non-USB Prism II/III cards are supported by the *hostap* driver, which also supports WPA. For the moment the *hostap* driver does not support USB cards (1).

With the help of *Ndiswrapper*, you can use a Windows driver for your card (2). In that case, you should blacklist the `prism2_usb` module.

(1)  <http://lists.shmoo.com/pipermail/hostap/2006-January/012401.html>

(2)  http://ubuntuforums.org/showthread.php?t=195553&highlight=prism2_usb

3. Updating firmware

It is possible to upload a newer firmware to the device's RAM which will then be used instead of the old firmware in its ROM. The firmware license does not allow Ubuntu to include the firmware files. However, the package *linux-wlan-ng-firmware* contains a script *linux-wlan-ng-build-firmware-deb* which can download

the firmware from the internet and put them into a new, local package called *linux-wlan-ng-firmware-files*. You can then install this package.

```
sudo apt-get install debhelper fakeroot make
sudo apt-get install linux-wlan-ng-firmware
linux-wlan-ng-build-firmware-deb
sudo dpkg -i linux-wlan-ng-firmware-files*.deb
```

Unfortunately, the automatic uploading of firmware at device initialization is broken in Ubuntu 6.06, see [bug #29706](#) for patches. A quick, ugly fix that might help in Ubuntu 5.10:

```
echo "wlan_nsdbname () { echo prism2 ;}" | sudo tee -
a /etc/wlan/shared
```

4. Compile Newer Driver


The current development version (upstream) can be retrieved from the linux-wlan-ng project's *subversion* repository (make sure you have the *subversion* package installed):

```
svn co svn://svn.shaftnet.org/linux-wlan-ng/trunk linux-wlan-ng
```


You can then compile the kernel driver modules. The upstream scripts have to be modified in able to work with Ubuntu 6.06, so you are probably better off using the scripts from the Ubuntu packages. If you are interested in improving the Linux Wireless Extensions support for this driver, have a look at `src/p80211/p80211wext.c`.

5. Ubuntu Release Specific Info

5.1. Hoary 5.04

See  <http://ubuntuforums.org/showthread.php?t=25676> for a howto.

5.2. Breezy 5.10

Please upgrade to Dapper 

5.3. Dapper 6.06

The hotplug subsystem has been obsoleted and removed, so the hotplug scripts are not used any longer. The udev subsystem provides the plug-and-play functionality.

CategoryDocumentation

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