

NAME

iwn - Intel IEEE 802.11n wireless network driver

SYNOPSIS

To compile this driver into the kernel, include the following lines in your kernel configuration file:

```
device iwn  
device pci  
device wlan  
device firmware
```

You also need to select a firmware for your device. Choose one from:

```
device iwn1000fw  
device iwn100fw  
device iwn105fw  
device iwn135fw  
device iwn2000fw  
device iwn2030fw  
device iwn4965fw  
device iwn5000fw  
device iwn5150fw  
device iwn6000fw  
device iwn6000g2afw  
device iwn6000g2bfw  
device iwn6050fw
```

Or you can use

```
device iwnfw
```

to include them all.

Alternatively, to load the driver as a module at boot time, place the following lines in loader.conf(5):

```
if_iwn_load="YES"  
iwn1000fw_load="YES"  
iwn100fw_load="YES"  
iwn105fw_load="YES"  
iwn135fw_load="YES"
```

```
iwn2000fw_load="YES"  
iwn2030fw_load="YES"  
iwn4965fw_load="YES"  
iwn5000fw_load="YES"  
iwn5150fw_load="YES"  
iwn6000fw_load="YES"  
iwn6000g2afw_load="YES"  
iwn6000g2bfw_load="YES"  
iwn6050fw_load="YES"
```

DESCRIPTION

The **iwn** driver provides support for:

- Intel Centrino Advanced-N 6200
- Intel Centrino Advanced-N 6205
- Intel Centrino Advanced-N 6230
- Intel Centrino Advanced-N 6235
- Intel Centrino Advanced-N + WiMAX 6250
- Intel Centrino Ultimate-N 6300
- Intel Centrino Wireless-N 100
- Intel Centrino Wireless-N 105
- Intel Centrino Wireless-N 130
- Intel Centrino Wireless-N 135
- Intel Centrino Wireless-N 1000
- Intel Centrino Wireless-N 1030
- Intel Centrino Wireless-N 2200
- Intel Centrino Wireless-N 2230
- Intel Centrino Wireless-N 4965
- Intel Centrino Wireless-N 5100
- Intel Centrino Wireless-N 6150
- Intel Centrino Wireless-N 6200
- Intel Centrino Wireless-N 6250
- Intel Centrino Wireless-N + WiMAX 6150
- Intel Ultimate N WiFi Link 5300
- Intel Wireless WiFi Link 4965
- Intel WiFi Link 5100
- Intel WiMAX/WiFi Link 5150
- Intel WiMAX/WiFi Link 5350

iwn supports **station** and **monitor** mode operation. Only one virtual interface may be configured at any

time. For more information on configuring this device, see `ifconfig(8)`.

This driver requires the firmware built with the `iwnfw` module to work.

EXAMPLES

Join an existing BSS network (i.e., connect to an access point):

```
ifconfig wlan create wlandev iwn0 inet 192.168.0.20 \  
netmask 0xfffff00
```

Join a specific BSS network with network name "my_net":

```
ifconfig wlan create wlandev iwn0 ssid my_net up
```

Join a specific BSS network with 64-bit WEP encryption:

```
ifconfig wlan create wlandev iwn0 ssid my_net \  
wepmode on wepkey 0x1234567890 weptxkey 1 up
```

Join a specific BSS network with 128-bit WEP encryption:

```
ifconfig wlan create wlandev iwn0 wlanmode adhoc ssid my_net \  
wepmode on wepkey 0x01020304050607080910111213 weptxkey 1
```

DIAGNOSTICS

iwn%d: device timeout The driver will reset the hardware. This should not happen.

iwn%d: firmware error The onboard microcontroller crashed for some reason. The driver will reset the hardware. This should not happen.

iwn%d: timeout waiting for firmware initialization to complete The onboard microcontroller failed to initialize in time. This should not happen.

iwn%d: could not load firmware image '%s' The driver failed to load the firmware image using the `firmware(9)` subsystem. Verify the `iwnfw(4)` firmware module is present.

iwn%d: could not load boot firmware An attempt to upload the boot firmware image to the onboard microcontroller failed. This should not happen.

iwn%d: could not load microcode An attempt to upload the microcode image to the onboard

microcontroller failed. This should not happen.

iwn%d: could not load main firmware An attempt to upload the main firmware image to the onboard microcontroller failed. This should not happen.

SEE ALSO

iwnfw(4), pci(4), wlan(4), wlan_ccmp(4), wlan_tkip(4), wlan_wep(4), ifconfig(8), wpa_supplicant(8)

AUTHORS

The original **iwn** driver was written by Damien Bergamini <damien.bergamini@free.fr>.