

iwlwifi - Debian Wiki

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This page describes how to enable support for Intel 802.11n devices on Debian systems.

The **iwlwifi** Linux kernel driver supports several Intel wireless LAN adapters:

- Intel Wireless WiFi 5100AGN, 5300AGN, and 5350AGN
- Intel Wireless WiFi 5150AGN
- Intel WiFi Link 1000BGN
- Intel 6000 Series WiFi Adapters (6200AGN and 6300AGN)
- Intel Wireless WiFi Link 6250AGN Adapter

- Intel 6005 Series WiFi Adapters
- Intel 6030 Series WiFi Adapters
- Intel Wireless WiFi Link 6150BGN 2 Adapter
- Intel 100 Series WiFi Adapters (100BGN and 130BGN)
- Intel 2000 Series WiFi Adapters
- Intel 7260 WiFi Adapter
- Intel 7265 WiFi Adapter
- Intel 3160 WiFi Adapter
- Intel 3165 WiFi Adapter

[Supported devices](#) are listed at the end of this page. Non-free firmware is required, which can be provided by installing the [firmware-iwlwifi](#) package.

 For support of Intel 3945ABG/BG and 4965AGN devices, see [iwlegacy](#).

Installation

Debian 9 "Stretch"

1. Add a "non-free" component to `/etc/apt/sources.list`, for example:

```
# Debian 9 "Stretch"  
deb http://httpredir.debian.org/debian/ stretch main contrib non-free
```

2. Update the list of available packages and install the [firmware-iwlwifi](#) package:

```
# apt-get update && apt-get install firmware-iwlwifi
```

3. As the iwlwifi module is [automatically loaded](#) for supported devices, reinsert this module to access installed firmware:

```
# modprobe -r iwlwifi ; modprobe iwlwifi
```

4. [Configure](#) your wireless interface as appropriate.

Debian 8 "Jessie"

1. Add a "non-free" component to `/etc/apt/sources.list`, for example:

```
# Debian 8 "Jessie"
deb http://httpredir.debian.org/debian/ jessie main contrib non-free
```

2. Update the list of available packages and install the [firmware-iwlwifi](#) package:

```
# apt-get update && apt-get install firmware-iwlwifi
```

3. As the iwlwifi module is [automatically loaded](#) for supported devices, reinsert this module to access installed firmware:

```
# modprobe -r iwlwifi ; modprobe iwlwifi
```

4. [Configure](#) your wireless interface as appropriate.

Debian 7 "Wheezy"

1. Add a "non-free" component to `/etc/apt/sources.list`, for example:

```
# Debian 7 "Wheezy"
deb http://httpredir.debian.org/debian/ wheezy main contrib non-free
```

2. Update the list of available packages and install the [firmware-iwlwifi](#) package:

```
# apt-get update && apt-get install firmware-iwlwifi
```

3. As the iwlwifi module is [automatically loaded](#) for supported devices, reinsert this module to access installed firmware:

```
# modprobe -r iwlwifi ; modprobe iwlwifi
```

4. [Configure](#) your wireless interface as appropriate.

Troubleshooting

Slow WiFi problems when using Bluetooth

Some devices like the 6235 do include a Bluetooth device in the same card, which may lead into radio conflict. Newer devices (7200 and up) try to solve them intelligently, but it is not the case of older ones.

If your WiFi is slow when using Bluetooth, try adding the following to `/etc/modprobe.d/iwlwifi.conf` and reboot:

- `options iwlwifi bt_coex_active=0 swcrypto=1 11n_disable=8`

Supported Devices

The page [HowToIdentifyADevice/PCI](#) explains how to identify a PCI device.

The following list is based on the *alias* fields of `modinfo iwlwifi` in Debian 3.16 (3.16.7-ckt9-2) kernel images.

- `PCI: 8086:0082 Intel Corporation Centrino Advanced-N 6205 [Taylor Peak]`
- `PCI: 8086:0083 Intel Corporation Centrino Wireless-N 1000 [Condor Peak]`
- `PCI: 8086:0084 Intel Corporation Centrino Wireless-N 1000 [Condor Peak]`
- `PCI: 8086:0085 Intel Corporation Centrino Advanced-N 6205 [Taylor Peak]`
- `PCI: 8086:0087 Intel Corporation Centrino Advanced-N + WiMAX 6250 [Kilmer Peak]`
- `PCI: 8086:0089 Intel Corporation Centrino Advanced-N + WiMAX 6250 [Kilmer Peak]`
- `PCI: 8086:008A Intel Corporation Centrino Wireless-N 1030 [Rainbow Peak]`
- `PCI: 8086:008B Intel Corporation Centrino Wireless-N 1030 [Rainbow Peak]`
- `PCI: 8086:0090 Intel Corporation Centrino Advanced-N 6230 [Rainbow Peak]`
- `PCI: 8086:0091 Intel Corporation Centrino Advanced-N 6230 [Rainbow Peak]`
- `PCI: 8086:0885 Intel Corporation Centrino Wireless-N + WiMAX 6150`
- `PCI: 8086:0886 Intel Corporation Centrino Wireless-N + WiMAX 6150`
- `PCI: 8086:0887 Intel Corporation Centrino Wireless-N 2230`
- `PCI: 8086:0888 Intel Corporation Centrino Wireless-N 2230`
- `PCI: 8086:088E Intel Corporation Centrino Advanced-N 6235`
- `PCI: 8086:088F Intel Corporation Centrino Advanced-N 6235`
- `PCI: 8086:0890 Intel Corporation Centrino Wireless-N 2200`
- `PCI: 8086:0891 Intel Corporation Centrino Wireless-N 2200`
- `PCI: 8086:0892 Intel Corporation Centrino Wireless-N 135`
- `PCI: 8086:0893 Intel Corporation Centrino Wireless-N 135`

PCI: 8086:0894 Intel Corporation Centrino Wireless-N 105
PCI: 8086:0895 Intel Corporation Centrino Wireless-N 105
PCI: 8086:0896 Intel Corporation Centrino Wireless-N 130
PCI: 8086:0897 Intel Corporation Centrino Wireless-N 130
PCI: 8086:08AE Intel Corporation Centrino Wireless-N 100
PCI: 8086:08AF Intel Corporation Centrino Wireless-N 100
PCI: 8086:08B1 Intel Corporation Wireless 7260
PCI: 8086:08B2 Intel Corporation Wireless 7260
PCI: 8086:08B3 Intel Corporation Wireless 3160
PCI: 8086:08B4 Intel Corporation Wireless 3160
PCI: 8086:095A Intel Corporation Wireless 7265
PCI: 8086:095B Intel Corporation Wireless 7265
PCI: 8086:24F3 Intel Corporation Wireless 8260
PCI: 8086:24F4 Intel Corporation Wireless 8260
PCI: 8086:422B Intel Corporation Centrino Ultimate-N 6300
PCI: 8086:422C Intel Corporation Centrino Advanced-N 6200
PCI: 8086:4232 Intel Corporation WiFi Link 5100
PCI: 8086:4235 Intel Corporation Ultimate N WiFi Link 5300
PCI: 8086:4236 Intel Corporation Ultimate N WiFi Link 5300
PCI: 8086:4237 Intel Corporation PRO/Wireless 5100 AGN [Shiloh] Network Connection
PCI: 8086:4238 Intel Corporation Centrino Ultimate-N 6300
PCI: 8086:4239 Intel Corporation Centrino Advanced-N 6200
PCI: 8086:423A Intel Corporation PRO/Wireless 5350 AGN [Echo Peak] Network Connection
PCI: 8086:423B Intel Corporation PRO/Wireless 5350 AGN [Echo Peak] Network Connection
PCI: 8086:423C Intel Corporation WiMAX/WiFi Link 5150
PCI: 8086:423D Intel Corporation WiMAX/WiFi Link 5150

See Also

- [iwlegacy](#) - Intel PRO/Wireless 3945 and WiFi Link 4965 devices

- [ipw2200](#) - Intel PRO/Wireless 2100, 2200 and 2915 devices
 - [How to use a WiFi interface](#)
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