

How to set up a USB WiFi Adapter on a Raspberry Pi

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Things to prepare

Here's everything you need to complete this tutorial:

1. USB WiFi adapter Edimax EW-7811
2. Raspberry Pi

How to set up Edimax USB WiFi Adapter on Raspberry Pi

1. Connect the Edimax WiFi adapter and Ethernet cable

Before starting up the Pi, plug in the USB WiFi adapter as well as the Ethernet cable.



2. Start Pi

To start the Pi, simply plug in the power cable.

3. Enable SSH on the Pi

By default, the Raspberry Pi uses the hostname "**raspberrypi**". So you can enable SSH using:

```
ssh pi@raspberrypi
```

The default username is pi and the default password is **raspberry**. Refer to the tutorial: [How to enable SSH on Raspberry Pi](#) for more details.

If you're having trouble with the hostname, follow this [guide](#) to find the IP address for your Raspberry Pi.

4. Make sure the Pi recognizes the device and the drivers are loaded

Once you are logged into the Pi, check to see if the Pi recognizes the USB device using the following command:

```
lsusb
```

You should see the following:

```
Bus 001 Device 004: ID 7392:7811 Edimax Technology Co., Ltd EW-7811Un 802.11n Wi
```

Note the first line.

Now you will check to see if the device driver has loaded. To list kernel modules use:

```
lsmod
```

You should see the following:

Module Size Used by cfg80211 rkill 8192cu bcm2835_gpiomem .

8192cu is what you were looking for and it looks like it is installed.

To check one last time, run:

```
iwconfig
```

And you'll see the wireless adapter here:

```
wlan0 unassociated Nickname:"  
" Mode:Managed Frequency:2.462 GHz Access Point: 20:3D:66:44:C6:70 Bit Rate:72.2
```

5. Configure wpa_supplicant using WiFi credentials

Now, open the following file to add the network credentials.

```
sudo vim /etc/wpa_supplicant/wpa_supplicant.conf
```

For Raspbian Jessie:

```
network={ ssid="SSID" proto=RSN key_mgmt=WPA-PSK pairwise=CCMP TKIP group=CCMP TP
```

For Raspbian Stretch:

```
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev network={ ssid="SSID" pro
```

Of course, you will need to replace your SSID and password.

6. Reboot

Remove the Ethernet cable and reboot with the following command:

```
reboot
```

You should now be able to connect over WiFi.

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