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# Linksys MX4300

From DD-WRT Wiki

**\*\*NOTE\*\***: This Wiki is WIP

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# Hardware ([https://wikidevi.wi-cat.ru/Linksys\\_MX4200](https://wikidevi.wi-cat.ru/Linksys_MX4200)) Specifications (<https://openwrt.org/inbox/toh/linksys/mx4300>)

Supported Models

	V1
FCC ID	2AYRA-08315

<b>CPU</b>	Qualcomm IPQ8174 @1400 MHz
<b>RAM</b>	2048 MB
<b>Flash</b>	512 MB
<b>Switch</b>	QCA8075
<b>Radios (2.4/5 GHz)</b>	QCN5024 / QCN5054x2

# Installation

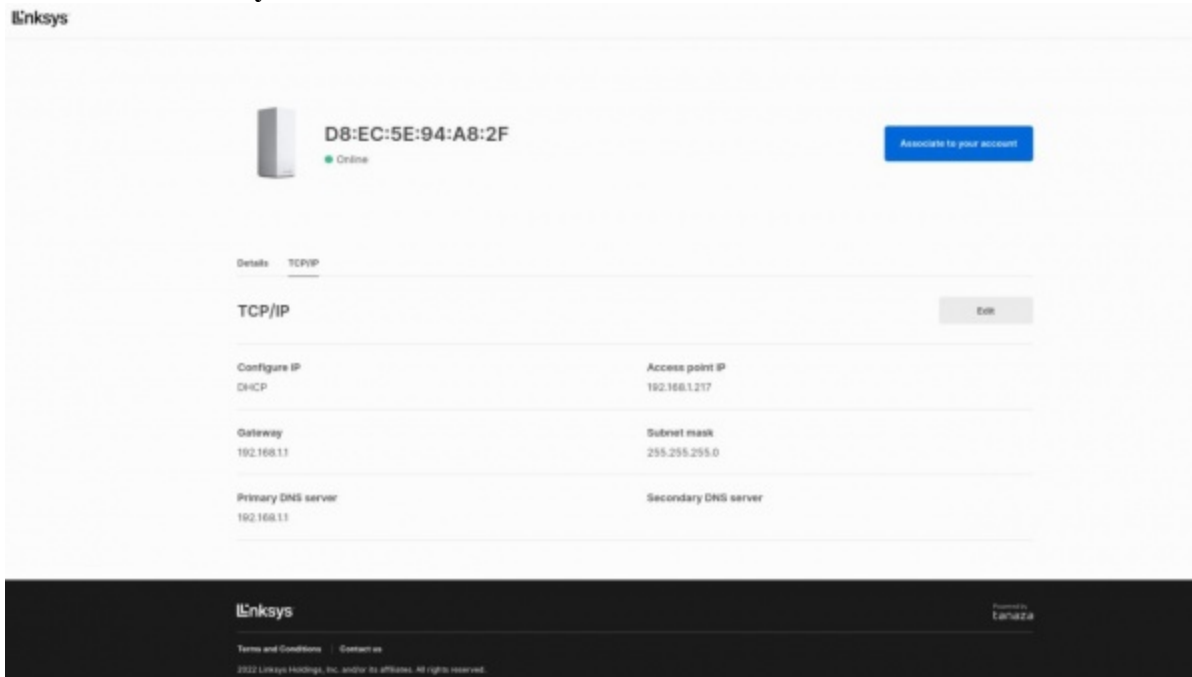
**\*\*WARNING\*\*:** DO NOT PERFORM A 30/30/30 VIA RESET BUTTON

**\*\*NOTE\*\*:** SEE Where do I download firmware? for information on where to download firmware files.

**\*\*NOTE\*\*:** MX4301 means that it was sold as a single unit. MX4302 and MX4303 means they came in packages of two or three.

**\*\*NOTE\*\*:** LN1301 is just another number for the same router.

**\*\*NOTE\*\*:** If once you boot you see a WHITE/Light-Grey Linksys screen instead of a Blue one, it is of the HomeWRK variety and cannot be flashed to DD-WRT. This would be rare however.



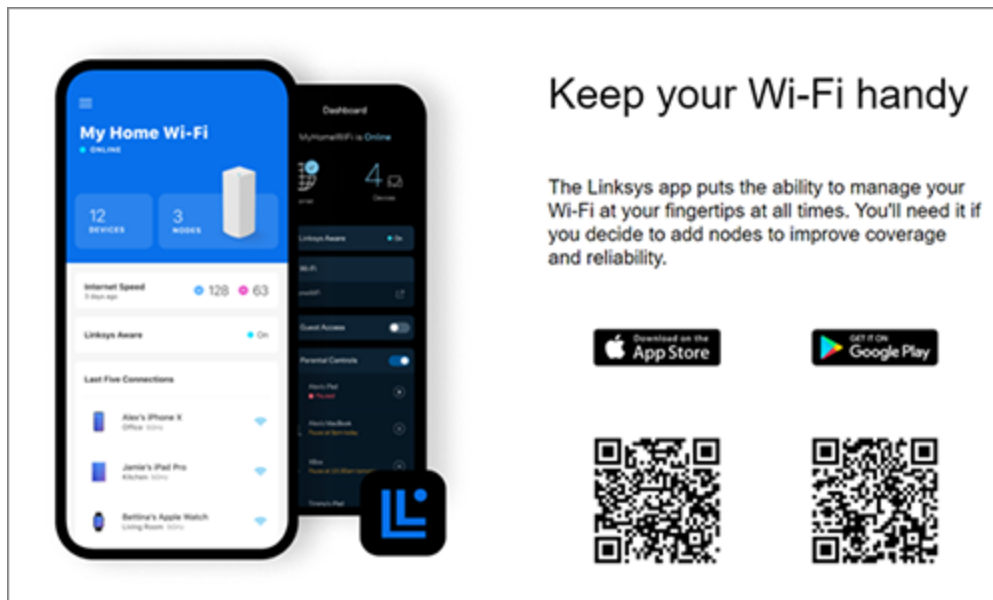
## Prerequisites

1. Download the *factory-to-ddwrt.img* and *dd-wrt-webflash.bin* files from the *linksys-mx4300* folder.

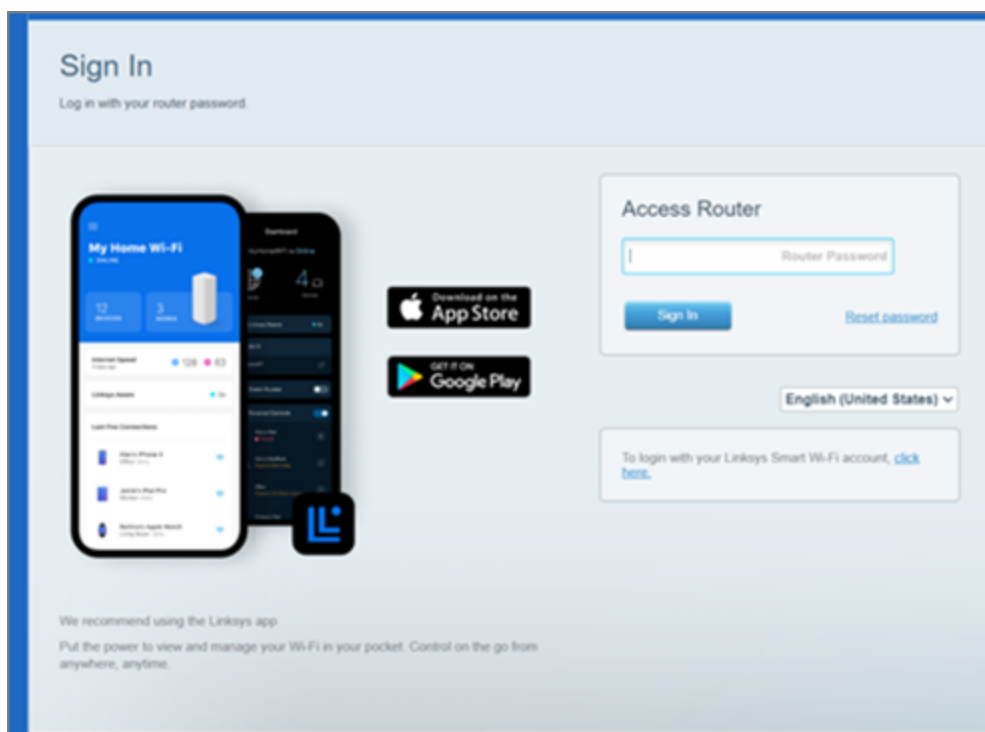
## Procedure

### Via Linksys WebUI

1. Connect your PC via Ethernet cable to one of the LAN ports on the back of your router.
2. Launch/open a web browser and enter <http://myrouter.local/> or <http://192.168.1.1> in the address bar.
3. Click on the cell phone on the splash screen.



- A login page will display. Enter your **Router Password** and click **Sign In**.
- The default administrator password of an unconfigured router is located on the sticker on the bottom of the router. If you have changed it, enter the new password instead.



4. To enter into the support mode, click on the “CA” link and the bottom of the page.



5. Click **Connectivity**.

Linksys Smart Wi-Fi

Help Linksys05996 Sign Out

**Smart Wi-Fi Tools**

- Device List
- Guest Access
- Parental Controls
- Priority
- Speed Check

**Router Settings**

- Connectivity
- Troubleshooting
- Wi-Fi Settings
- Security

**Network Status**

No Internet Connection

THIS DEVICE ROUTER INTERNET

**Linksys Home Networking**

Learn more about apps for Linksys Smart Wi-Fi Routers

**Wi-Fi Settings**

Linksys05996 2.4 GHz + 5 GHz

**Guest Access**

Guest Access is OFF: OFF

Guest Wi-Fi: Linksys05996-guest

Password:

Currently: 0 guests

**Device List**

Online devices:

Local 1

Guest 0

+ Add a Device

**Parental Controls**

Parental Controls are OFF: OFF

Controlled devices: None

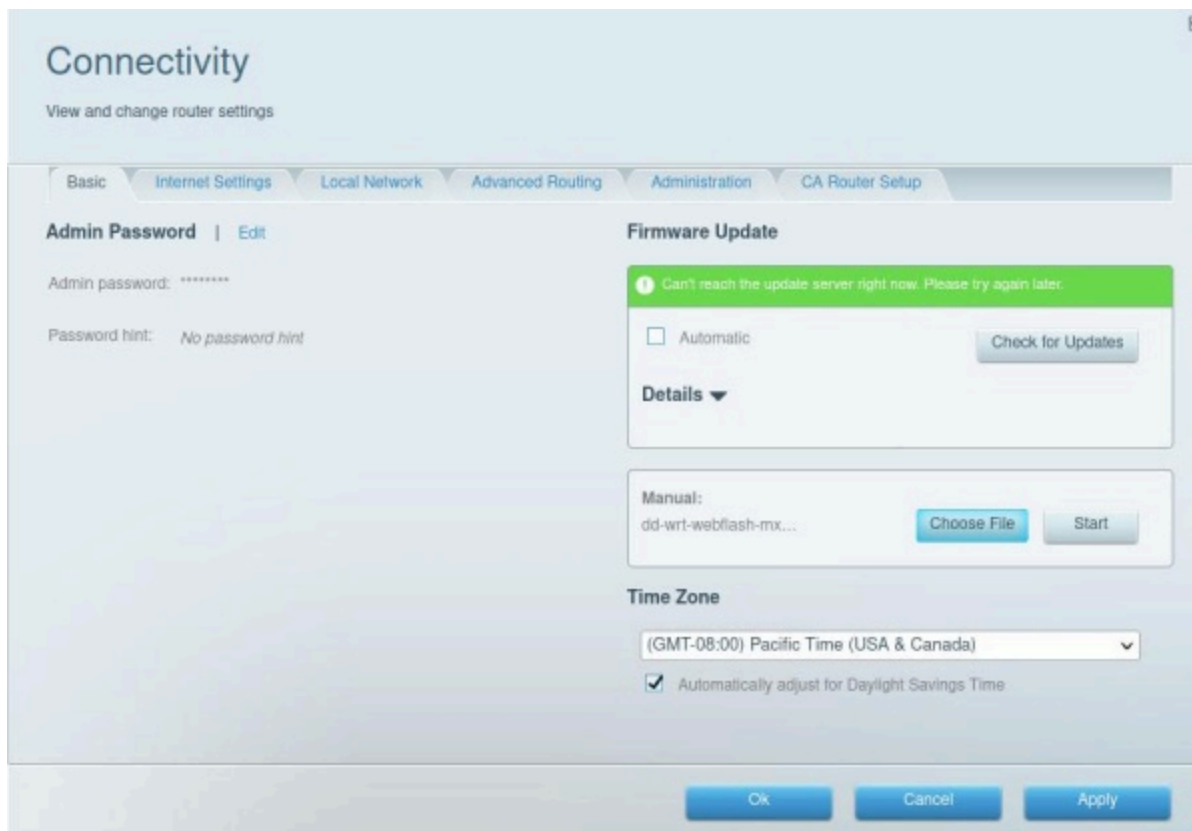
**Priority**

Priority is OFF

Prioritize devices

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6. In the **Firmware Update** section, under the **Basic** tab, click the **Choose File** button.



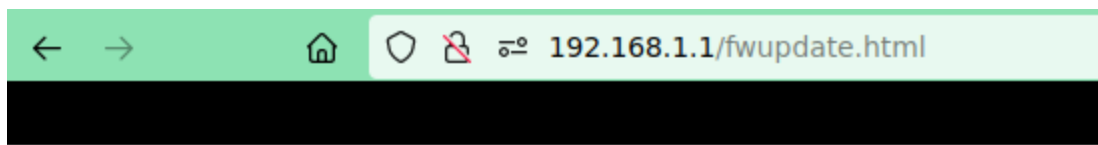
7. Select the previously downloaded *factory-to-ddwrt.img* file and click Open.
8. Click the **Start** button. On the **Update firmware** pop-up box, click **Yes**.
  - Your router will start updating the firmware.

**\*\*CAUTION\*\*:** After you start the firmware update, do not try to go online, turn off or do anything else to the router, or close the browser window until it finishes restarting.

9. In your browser, go to <http://192.168.1.1>
  - You should be greeted by the password change page of the DD-WRT webUI.
10. Set username (optional, default username is root) and password (enter password twice, these **\*must\*** match and are case-sensitive).
  - You should be greeted by the System Info page of the DD-WRT webUI
  - **SEE *Upgrading DD-WRT* section to flash the full version, then proceed to the following step.**
11. Click on *Setup* to begin configuration to your needs.
  - You will be required to enter username and password previously set.
12. Click *Save* on each page (unless otherwise noted in a specific tutorial).
13. When finished, Click on *Services* or *Administration* tab and click *Reboot*.

## Via Hidden Manual Upgrade Page

1. Connect your PC via Ethernet cable to one of the LAN ports (Ethernet) on the back of your router.
2. Launch/open a web browser and enter <https://192.168.1.1/fwupdate.html> into the address bar in the browser.
  - Depending on which browser you are using, you may come across an error.
  - This error occurs when accessing a router that requires using an HTTPS connection.
  - To bypass this window, follow these steps (<https://support.linksys.com/kb/article/65-en/>) .
  - You will be greeted by a login pop-up. Enter the credentials. Default user/password is admin/admin.
  - You will be redirected to the hidden manual firmware upgrade page.



## Firmware Update

Admin password:

No file selected.

3. Enter the default administrative router password from the sticker on the bottom of the router.
4. Click on **Select File** and select the previously downloaded *factory-to-ddwrt.img* file and click **Open**.
5. Click **Update**.

**\*\*CAUTION\*\*:** After you start the firmware update, do not try to go online, turn off the router, or do anything else to the router until it finishes restarting.

6. In your browser, go to <http://192.168.1.1>
  - You should be greeted by the password change page of the DD-WRT webUI.
7. Set username (optional, default username is root) and password (enter password twice, these **\*must\*** match and are case-sensitive).
  - You should be greeted by the System Info page of the DD-WRT webUI
  - **SEE *Upgrading DD-WRT* section to flash the full version, then proceed to the following step.**
8. Click on *Setup* to begin configuration to your needs.
  - You will be required to enter username and password previously set.
9. Click *Save* on each page (unless otherwise noted in a specific tutorial).
10. When finished, Click on *Services* or *Administration* tab and click *Reboot*.

## Upgrading DD-WRT

**\*\*WARNING\*\*:** DO NOT PERFORM A 30/30/30 VIA RESET BUTTON

**\*\*NOTE\*\*:** SEE *Where do I download firmware?* for information on where to download firmware files.

## Prerequisites

1. Download the *dd-wrt-webflash.bin* file from the *linksys-mx4300* folder.

## Prodecure

**\*\*WARNING\*\*:** Do not use this file to go from Stock to DD-WRT.

**\*\*NOTE\*\*:** Reset to defaults is recommended if you are upgrading from a very old build (> 6 months).

**\*\*NOTE\*\*:** Do not restore a backup from one version to another version of DD-WRT, as nvram variable names may have changed.

1. Connect your computer to your router with an Ethernet cable.
2. Open a web browser and navigate to <http://192.168.1.1> (or whatever you set your router IP to).

3. Enter username and password as required.
4. Go to *Administration -> Firmware Upgrade*
  - Leave *Do Not Reset* selected for *After Flashing*
5. Click on *Browse* and select the appropriate previously downloaded *dd-wrt-webflash.bin* file specific to your router model version.
6. Click *Open*
7. Click *Upgrade*
  - The firmware update starts and the router restarts. The firmware update process takes about five minutes.

**\*\*CAUTION\*\*:** After you start the firmware update, do not try to go online, turn off the router, or do anything else to the router until it finishes restarting.

8. If the webUI does not automatically go back to the *Setup -> Basic Setup* page, or does not stop at the progress bar page to allow you to click *Continue* after waiting at least five minutes (i.e. if you get a "Connection Reset" or other error page in your browser), enter `http://192.168.1.1` (or whatever your router IP address is) manually or click and hold the "Back" button and select the appropriate history entry.

## Revert to Factory Firmware

**\*\*NOTE\*\*:** DD-WRT 58283 OR NEWER REQUIRED TO BE INSTALLED ON ROUTER.

1. Download the applicable OEM firmware image from MX4300 Downloads and Documents (<https://support.linksys.com/kb/article/1003-en/>)
2. Upload factory firmware .img file to the router's /tmp folder using an scp client.
3. SSH or Telnet into the router's console and cd to /tmp.
4. Do `#ls -lart` to make sure the file you just uploaded is present.
  - Using the -lart flags will sort your newly uploaded factory firmware file to the bottom of the output list.
5. Check to see which boot partition you are on by issuing:

```
#fw_printenv -n boot_part
```

**\*\*NOTE\*\*:** If the file is not present when you run the following command, you will get a **segmentation fault**.

6. Flash factory image.
  - If the boot partition is 1, issue the following:

```
mtd -e linux2 -f write factoryfilename.img linux2
```

- If the boot partition is 2, issue the following:

```
mtd -e linux -f write factoryfilename.img linux
```

**\*\*NOTE\*\*:** If you see this error, you can ignore it:

```
Warning unaligned data, we use manual padding to avoid errors. size was 131072!!!
```

7. Once completed you need to change your boot partition to where you just flashed the factory firmware.
  - If you flashed to linux2, then set it to 2; If you flashed it to linux, set it to 1.



```
fw_setenv boot_part 1|2
```

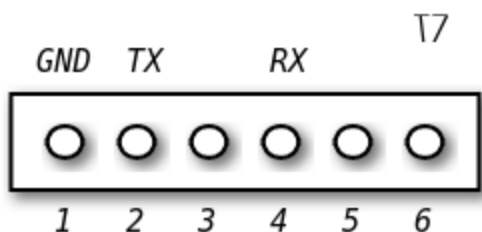
**\*\*NOTE\*\*:** If you wish to flash both partitions via CLI, you may do so; or you can flash the other via Linksys WebUI after reboot.

8. Reboot.

## Recovery

WIP

### Serial Pinout



## Links, Notes, and Further Reading



- Linksys MX4300 (LN1301) FAQs - Linksys Support (<https://support.linksys.com/kb/article/1012-en/>)
- Linksys MX4300 (LN1301) Support Articles (<https://support.linksys.com/kb/article/1010-en/>)
- MX4300 Downloads and Documents (<https://support.linksys.com/kb/article/1003-en/>)
- Manually updating the firmware of the Linksys MX4300 (LN1301) (<https://support.linksys.com/kb/article/6564-en/>)
- Linksys MX4300 - OpenWRT Wiki (<https://openwrt.org/inbox/toh/linksys/mx4300>)
- View topic - Linksys LN1301 - MX4300 WIP - DD-WRT (<https://forum.dd-wrt.com/phpBB2/viewtopic.php?t=337154>)

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