

Contents

- [1 Hardware Specifications](#)
- [2 Flashing](#)
 - ◆ [2.1 Warnings](#)
 - ◆ [2.2 Flashing Process](#)
 - ◆ [2.3 Upgrading Process](#)
 - ◆ [2.4 Reverting back to stock firmware](#)
- [3 Wireless-N Configuration](#)
- [4 References](#)

Hardware Specifications



CPU	Broadcom BCM4718
CPU Speed	480 MHz
Flash ROM	16 MB Macronix MX25L12845E
RAM	64 MB
Radios	2.4 GHz, 5 GHz
WLAN Support	a/b/g/n

WLAN Max Speed	300mbps (2.4 GHz) & 450mbps (5 GHz)
Antenna Location	Internal (x6)
Bands	3 x 3
Switch	4x GigE + 1 WAN Broadcom 53115 IEEE 802.3/3u/3ab
USB	1x USB 2.0

Radio wl0 is Broadcom 4718 (SoC)

Radio wl1 is Broadcom 4331 Intensi-fi Single-Chip 802.11n Transceiver

Flashing

Warnings

- The E4200 is very sensitive to the nvram size.
- For the initial flash, upgrading stock firmware to DD_WRT use Flashing process procedure below!! Please follow it to prevent a brick only use trailed builds
 - ◆ A trailed build has "E4200" in its name like:
dd-wrt.v24-18777_NEWD-2_K2.6_mini-**e4200**.bin
- The only safe builds which can be used **AFTER** initial flash for this router are **nv60 builds**
 - ◆ A NV60 build in its name like: dd-wrt.v24-18777_NEWD-2_K2.6_big-**nv60**.bin
- Recovery from a firmware with the wrong nvram size requires use of a jtag cable to erase the nvram.¹
- Support for the E4200 is still very much a work in progress at this time, outstanding issues reported have included WAN stability, and both 2.4GHz and 5GHz Radio stability.

Flashing Process

- Perform these steps when flashing from the stock Linksys GUI:
1. Read all required reading sections of the peacock announcement:
<http://www.dd-wrt.com/phpBB2/viewtopic.php?t=51486>
 2. Disconnect all cables and wireless clients.
 3. Do a Hard reset or 30/30/30 on router.
 4. Set your computer to a static IP-address 192.168.1.8
 5. Connect 1 Lan cable to pc doing the flash.
 6. Flash an E4200-specific mini build; e.g., **21676 trailed initial flash build for E4200**
 - ◆ **Do NOT use a build with "nv60k" in the name for the initial flash**; use only the trailed build linked just above.
 - ◆ **21676 is a stable, reliable, recommended build for the E4200**, but *only use the mini version*, since *larger versions have the dangerous Heartbleed vulnerability*. If you need more functionality than mini, upgrade to **KingKong 22000++**:
 7. Wait for the flashing process to complete.
 8. Wait at LEAST another 5 minutes after the flashing process has completed.

9. Perform a Hard reset or 30/30/30 after the device has successfully updated.
10. Wait 3 minutes and log into web interface.
 - ◆ You may have to clear your browser cache before the web login will display.

Upgrading Process

- If you need to upgrade to a build other than mini or a newer release take note of the following
- If a nv60 build is flashed to the router those are the only builds which can be flashed from that point on.

WARNING AFTER installing DD_WRT, ONLY flash -nv60k builds, Flashing anything else to the router will brick it as noted above

1. Select the build of your choosing (Mega, Big, std_usb_nas, OpenVPN, VoIP.)
2. Follow the same flashing procedure as you used for the initial flash

Reverting back to stock firmware

- You can always revert back to stock firmware.
- Download the latest E4200 firmware from linksys site.

1. Disconnect all cables and wireless clients.
2. Perform a 30/30/30 reset on the device.
3. Login and select the stock firmware file and flash, make sure to select "reset to defaults" on the drop down menu when flashing.
4. Wait approximately 5 minutes for the flashing process to complete.
5. Perform a 30/30/30 after the device has successfully updated.

Wireless-N Configuration

- As is explained in http://www.dd-wrt.com/wiki/index.php/Wireless-N_Configuration make sure that you use AES security for your wireless N network. Do not use TKIP or the wireless speed will revert to the g standard and that would be a pity. AES+TKIP is also allowed.
- Both the 2.4 and 5GHz Radios run at a stock transmitting power of 100mW, decreasing the transmitting power to a value between 40 & 50mW has seemed to help stability.

References

1. [e4200 build thread](#) at dd-wrt forum
2. [FCC disclosures](#)