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Linksys WRT600N

Hardware Specs

WRT600N v1.0: FCC ID: Q87-WRT600NV1 WRT600N v1.1: FCC ID: Q87-WRT600NV11

- CPU: Broadcom BCM4705 (300 MHz)
- Flash: 8 MiB
- RAM: 32 MiB
- USB 2.0 port(s): 1
- Wireless chip1: Broadcom BCM4321
- Wireless chip2: Broadcom BCM2055
- MIMO config: 2x3:2
- Antenna connectors: U.FL

- NO SGI 400ns support which yields only 270mbps maximum connection rate vs 300mbps if SGI of 400ns were to be supported.

This is a draft N router and Broadcom SUCKS at making any updates to their drivers EVER, so... 270mbps is the best she'll do.

Partitions

CFE:

```
0x00000000-0x00040000 : "boot"  
0x00040000-0x007e0000 : "linux"  
0x0013f430-0x007e0000 : "rootfs"  
0x007e0000-0x007f0000 : "factory"  
0x007f0000-0x00800000 : "nvram"
```

DD-WRT:

Linksys_WRT600N

```
0x00000000-0x00040000 : "cfe"  
0x00040000-0x007f0000 : "linux"  
0x00122000-0x00590000 : "rootfs"  
0x00590000-0x007f0000 : "ddwrt"  
0x007f0000-0x00800000 : "nvram"
```

Assuming the *factory* alignment is the same for v1.0 and v1.1, the size limit is $0x7F0000-0x40000 = 8060928$ bytes (7872 KB).

Flashing

Important: Read the DD-WRT [Firmware FAQ](#) and [Peacock announcement](#) first!

Reset

As always make sure to do a proper [hard reset](#) before and after updating the firmware. This is not an optional step! Do not restore backups from a different build number or type.

Flashing DD-WRT

For initial flash, a trailed build is required which has header information required by the Linksys firmware.

- Download the [14929 WRT600N mega trailed build](#)
 1. Reset to factory defaults
 2. Flash it via the stock web interface
 3. Reset again after flashing

For upgrades, use any */broadcom* folder non-micro build under 7872 KB (see [Where do I download firmware?](#)) The */broadcom* folder has Kernel 2.4 builds only.

- Starting with 41351, there is a 3.x Kernel version available in the */Linksys-wrt600* folder of the beta builds section. K3.x is a lot more resource heavy and may impact your Wan-to-Lan speeds vs. the K2.4 builds. More testing is underway (3/31/20 by MSOENGINEER). This folder is an identical build as the generic MipselR1 folder, but the header file is specific to allow updating via dd-wrt webgui or TFTP. The generic K3.X mipselr1 firmware will fail to flash via webgui, or will bootloop your router if TFTP'd on. These two builds are the same otherwise. The mipselr1 file is intended for testing on other mipselr1 routers that don't have a specific build for them, so YMMV.
- Resets are unnecessary, but reset and manually set up before reporting issues
- Research new build and router-specific threads before trying newer builds.
- If you have an issue, try clearing the web browser cache or try a different browser.

Reverting to Stock Firmware

Simply reset and flash the stock image via TFTP or through the web interface. Make sure to reset after flashing.

Known Bugs

Initial Flash May Not Work / TFTP problems

Some users may experience "Failed to Upgrade Firmware" messages when upgrading via Linksys web interface, even when using special 600N-specific builds. Also, TFTP will not work once the router has fully booted.

TFTP must be initiated within 1-4 seconds after power-on.

Suggest using Draytek Firmware upgrade utility for flashing via TFTP This seems to work better than TFTP64/32 for timing things out.

Plug the router in and nearly simultaneously hit the send button. Wireshark is a great utility to have running at the same time to watch the tftp go through. The suggested Draytek utility will show a progress bar if you did it right. Wait for the Draytek timer to complete before hard reboot (physically unplug & replug). The router might not do anything so be patient and watch the wifi LED's for a change.

Static set IP of NIC to 192.168.1.5 Subnet 255.255.255.0

router will be 192.168.1.1 port 69

Resources

- <http://www.question-defense.com/2009/03/13/linksys-wrt-600n-wireless-router-upgraded-with-dd-wrt-firmwa>