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Hardware



8 ETHERNET PORTS FOR UNLIMITED CONNECTIVITY TO ALL YOUR DEVICES

Delivering great wireless performance, network security and coverage, the D-Link Wireless N 8-Port Router (DIR-632) is ideal for building a powerful network. Designed to do the heavy-lifting and get your small business humming, 8 ports let you connect just about anything you can imagine, all at once - printers, laptops, desktops, security cameras, servers, storage drives - you name it, the DIR 632 can handle it. It also serves as an excellent home router, since it's ideal for providing wired Internet connectivity for video, music, photos, and documents.

Pros of this hardware

- Runs standard version of DD-WRT
- Eight (8) wired ports, at 10/100 speed.
- New Hardware. 802.11n WiFi
- Easy to install DD-WRT
- One USB Port
- Great range, signal strength and stability

Cons of this hardware

- The biggest knock about this router is it's frequent WIFI drops and lockups when using the stock firmware. Installing DD-WRT corrects this issue.
- No gigabit / 1000 speed LAN support.
- No Wireless AC / IEEE 802.11ac.

Specifications

Power in	100~240V 0.4A, Power Out 5V 2.5A
PCB ver.	A1
D-Link Firmware	1.0.2 dated 2010/11/26
CPU	AR7241 or AR7242 @ 400Mhz(MIPS32 24Kc).
Wireless NIC	AR9287
Ethernet Ports	1x WAN RJ-45 10/100 Base T, 8x LAN RJ-45 10/100 Base T
Switch chip	RTL8309G
ROM size	8mb <= The D-Link official rom is 7.6mb
RAM	32MB
USB ports	1x USB2.0, can connect to a USB hub, for more usb devices sharing.
USB 3G	It support D-Link its own DWM-156 3G nic.
Antennas	2x antennas
FCC ID	<u>KA2IR632A1</u>
Wireless standards supported	802.11b (max. 11 Mbit/s), 802.11g (max. 54 Mbit/s), 802.11n (max. 300 Mbit/s, 2.4 GHz only)

Main board



This shows the main board for the DIR-632 along with the location for the SERIAL and JTAG headers.

Installation Instructions

Please note that is is pre-release firmware at the momment. Please read the support forum listed at the bottom of this page before loading it on you router to avoid bricking it.

Out-of-the-box factory firmware upgrade

To install dd-wrt on a stock D-Link DIR-632, you can flash it directly from the router's web admin page (yes, that is correct... from D-Link's standard web interface). These are the steps to follow:

1. Download the current firmware:
 1. NA (North America) - [Factory-to-ddwrt](#) r20548. See [Where do I download firmware?](#) for links.
 2. AP (Asia Pasific) - Download the NA version of the firmware, then use a Hex Editor to modify the signature at the end of the file. Change A101-AR7242-RT-100324-01 to A101-AR7242-RT-100324-02
 3. WW (Any place else in the world) - Download the NA version of the firmware, then use a Hex Editor to modify the signature at the end of the file. Change A101-AR7242-RT-100324-01 to A101-AR7242-RT-100324-03
2. Connect to the DIR-632 using an Ethernet cable.
3. Open <http://192.168.0.1/> in your web browser (Firefox recommended), which should open the DIR632's administrative page from the standard D-link firmware.
 1. The D-link's default login details are user "admin", password is blank.
 2. Tools -> Firmware
 3. Click "browse" button -> select the "factory-to-ddwrt_NA.bin" file -> click "Upload" button.
 4. Wait 2 or 3 minutes for the DIR-632 to flash and do the update. You will see a status page that shows you the progress as it happens. After the flash & update is done, the router will

11. Reset router by holding down reset button for 10 seconds, status light will go orange again but don't worry it is just rebooting.
12. You should be good to go, open a new browser window and type 192.168.0.1 and you should get the Dlink login page. If this doesn't work, try again from step 1

USB Storage

What follows are the steps needs to use storage devices connected to the routers USB port.

1. Connect the USB device to the Router.
2. Restart the router.
3. Open the DD-WRT's web interface in your web browser. It's <http://192.168.1.1/> by default.
4. Services -> USB
 1. Enable **Core USB Support**
 2. Enable **USB Storage Support**
 3. Enable **Automatic Drive Mount**
 4. Select **Save**, and then **Apply**
 - ◆ You can ignore the **Status: Not mounted** message

FTP Access

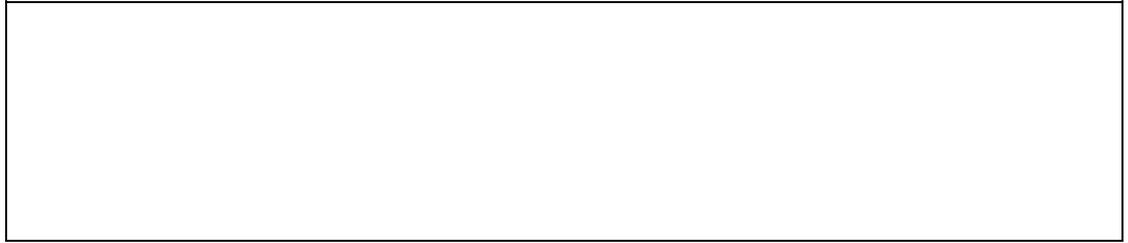
Once set up, you will be able to access all the mounted partitions by using <ftp://192.168.1.1>

1. Serices -> NAS
2. Enable **ProFTPD**
3. Select other settings and then select Save, and then Apply

File Sharing Access

Once set up, you can access your files using Universal Naming Convention (UNC) names; ex. \\192.168.1.1\part1. Storage devices can be format as Fat16, Fat32, NTFS, and Ext2. The Ext3 drive format is not support, and will not mount.

1. Serices -> NAS
2. Add Share
3. Select the Share's Path, enter and name, and indicate is it's public or not. If it's pubic you do not have to add users.
4. Repeat 2 and 3 for each share
5. Select Save, and then Apply



◇ If you plan to add user, do so after adding the shares.

Note: There is currently a limit of the size of Hard Drive that can be connected: 2TB and under only. Also formatting the drive as EXT2 will give you better performance over NTFS. Use the GParted Live image to reform your hard drive.

USB Printing

What follows are the steps needs to use printer devices connected to the routers USB port.

1. Connect the USB device to the Router.
2. Restart the router.
3. Open the DD-WRT's web interface in your web browser. It's <http://192.168.1.1/> by default.
4. Services -> USB
 1. Enable **Core USB Support**
 2. Enable **USB Printer Support**
 3. Select **Save**, and then **Apply**

Using the printer in Windows 7

- Open **Control Panel, Devices and Printers**
- Choose **Add a printer**, and then **Add a Local Printer**
- select **Create a new port**, and choose **Type of port: Standard TCP/IP Port**. Click **Next**
- Enter the IP address or your router: 192.168.1.1. If you like you can give the port a name.
- **UNCHECK** the checkbox to **Query the printer and automatically select a driver use**. Click **Next**.
Now wait until the detection is done. It will say that the device is not found. Don't despair
- Choose **Custom** and then click **Settings**
 - ◆ Make sure that **Protocol Raw** is selected and **Port 9100** is entered. That will be proposed.
 - ◆ Leave all other settings also as they were and click **OK**
- Click **Next**.
- Choose the printer driver for your printer, then click **Next**
- Give your printer a name, , then click **Next**
- You don't have to share the printer. click **Next**
- You can set it as default printer if your would like.
- Click **Finish**

Don't forget that your routers default address is 192.168.1.1 and its port is 9100

Common Problems

- Wireless Security WPA2 does not work with i Touches. Use WPA instead with AES or TKIP+AES encryption.
- When mounting USB devices, an odd message is produced indicating **Status: Not mounted**. This can be ignored. Fixed in beta versions (since at least March 2015).
- Can only load on the NA (North American) versions of the router. You need to Hex Edit the NA firmware to load elsewhere per the instructions.
- The undocumented button on the right side, near the front is a WDS or Wireless Distribution System button. It's not used.
- The WiFi Led doesn't light up. Not really a problem. Fixed in beta versions (since at least March 2015).

Support

- Support Thread: [See Forum](#) ... it's getting long.