

# WIRELESS N+ ROUTER

# N600 DB

**User Manual** 

F9K1102V3 8820xx01233xx Rev. A00

ENGLISH

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# What's in the Box

N600 DB Wireless N+ Router

Ethernet cable (attached to router)

Power supply (attached to router)

Network information card (attached to router)

Quick Setup Guide

# **Initial Setup**

#### Where to Place Your Router

For the best results, place the Router next to your modem in an open location, away from large metal objects and magnets such as those found in speakers. Raising the Router above floor level can improve the strength of your wireless signal.

# How to Set It Up

#### Connect Your N600 DB Router

Turn off your modem by disconnecting its power supply. Some modems have a battery backup; this will need to be disconnected at this time as well.

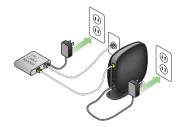
Connect your Router to your modem using the cable (already attached).

Power up your modem by plugging in its power supply. If your modem has a battery backup, it can be reconnected at this time; you may need to hold the reset button for 10 seconds.

Power up your Router by plugging in its power supply.



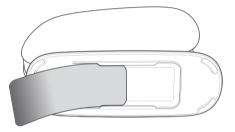




## **GETTING STARTED**

## **Connect to Your Router**

Retrieve the network ID card from the foot of your new Belkin Router.



Can't find the card? The default network name and password are also printed on the foot of the Router.

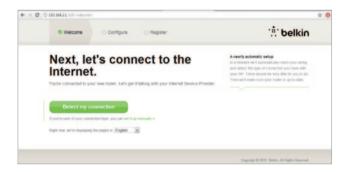
Use your computer, tablet, or smartphone to connect to the wireless network shown on the network ID card.

For information on how to connect your wireless devices, please see the "Connect Your Wireless Devices" section on page 20.

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Connected	1
	1
	1
	is Connected

When requested, please enter the password (security key) provided on the card.

When your device has connected to the Router, use a browser to visit http://router/. The router homepage will appear.

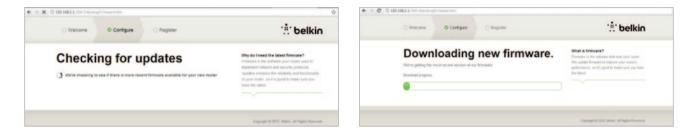


If the page does not load, then try visiting http://192.168.2.1 to see the router homepage.

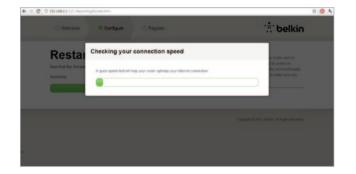
Click the "Detect my connection" button in green. (If you would rather set up the Router manually, click the "set it up manually" link and proceed to page 11.)

After several moments, your Router should automatically detect your Internet connection and restart. This can take anywhere from 30 seconds to 3 minutes depending on your connection type.

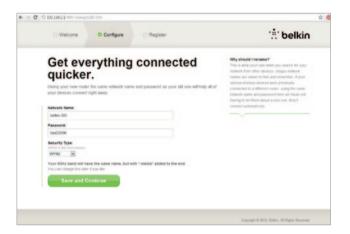
If your Router is unable to establish an Internet connection on its own, you may be asked to restart your modem or provide a username and password if your connection requires one. Follow the on-screen instructions provided.



Once your Router is online, it will determine if there is a firmware update available and offer to install it. Please allow up to 5 minutes for the firmware to update.



If there are no updates available, then setup will proceed.



At the next screen you will be invited to change your network name and password. Re-using your previous network name (SSID) and password makes connecting your existing devices to the new router much easier.

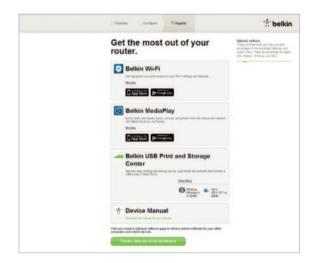
If you decide to change these settings, then enter the new values and click "Save and Continue." (Note: The password must be at least 8 characters long.)

If you changed your network name and password, make note of it on the service card located on the foot of the Router. You will then have to connect to the new network.

← → C © 18216821-451 YourNewOldNetwork htm	\$	€ → C © 19216821/500 Regultration.htm	
O Welcome Configure O Register		O Welcome O Configure O Register	: belkin
	Connecting to your new network Cash of your waveless devoise with wearts to be cash about your own entrots. Then an an industries for infrontes. Of X. OD, and A-crist in your cases made to cash	Lect's register your router.  Prophetor of a start of the same you this of the or the phase if you should ever need to generative segond a cal  For home Carthone Car	Why regular? Incoming a life bit allows you can trop us non- you none quickly should the need anno
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Please take this opportunity to register your Router. This will help technical support if there is a problem with your Router.

Simply complete each of the required fields and click "Complete Registration." If you don't want to register right now, click "Register Later" to proceed.



At the next screen you can download optional software that was bundled with your Router.

This screen shows you optional software that is available for your Router, such as the USB software to allow you to print through the Router's USB port. If you wish to download and install any of these software programs, simply click on the button appropriate for your device.

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Features				
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Parental Cor	ntrols	Access Control	Media Server	
뽛		2	白	
DHCP Client	t List	Guest Access	Optional Software	
Router Links				
LAN Setup	Internet WAR	PVI-+	Wireless -+	
LAN Settings DHCP Client List	Connection Type DNS WVC Address	Put Connection	Network Name Security 196-71 Protected Setup Quest Access One as an Access Point	

When finished installing optional software, click "Thanks, take me to the dashboard."

Congratulations! You are now at your Router's dashboard. Your Router is set up and ready to use.

#### Using the WPS Button

- Start WPS Push Button Connection (WPS PBC) on your computer or other Wi-Fi device that you would like to connect wirelessly to your Router. Often there will be a button for this purpose in software that came with the device, or a physical "WPS," "PBC," or "Security" button on the device itself.
- 2. Within two minutes, press the WPS button on your Router.

The WPS light (small light above WPS button) will blink blue while it listens for your Wi-Fi device. Once a connection is established, the light will turn blue and then go out. If a connection is not established, the light will blink amber. You may repeat the process to try again.

You can repeat this process for each WPS-enabled device you'd like to add to your network.

#### Manually Set Up Your Internet Connection

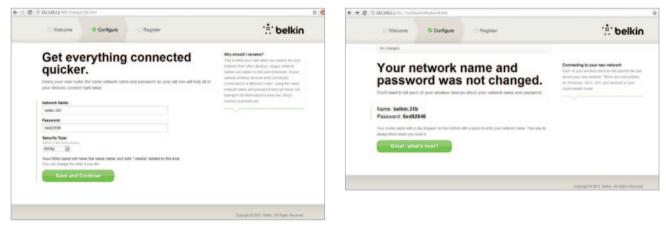
Use a browser to visit http://router/. You can also try visiting http://192.168.2.1/. The Router's Welcome page should appear.

Click the "Set it up manually" link. Please select the type of connection your ISP provides. Refer to page 16 for a description of the connection types.



If the selected connection type requires additional information (such as an ISP username and password), the system will ask you for it.

At the next screen you will be invited to change your network name and password. Reusing your previous network name (SSID) and password makes connecting your existing devices to the new router much easier.



If you decide to change these settings, then enter the new values and click "Save and Continue." (Note: The password must be at least 8 characters long.)

If you changed your network name and password, make note of it on the service card located on the foot of the Router. You will then have to connect to the new network. Please refer to page 20 to do this. Click "Great, what's next?"

# **GETTING STARTED**

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Last Name:		
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Country: United States		
E Send me occasional Belkin news and updates		
Complete Registration	Gegenheit Lather is	



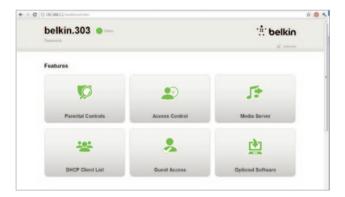
Please take this opportunity to register your Router. This will help technical support if there is a problem with your Router.

Simply complete each of the required fields and click "Complete Registration." If you don't want to register right now, click "Register Later" to proceed.

At the next screen you can download optional software that was bundled with your Router.

This screen shows you optional software that is available for your Router, such as the USB software to allow you to print through the Router's USB port. If you wish to download and install any of these software programs, simply click on the button appropriate for your device.

When finished installing optional software, click "Thanks, take me to the dashboard."



Congratulations! You are now at your Router's dashboard. Your Router is now set up and ready to use.

The status of your Internet connection is shown in the upper left corner of the Router's homepage.

If it does not say "Online," troubleshooting information will be displayed.

Router Links			
LAN Setup	Internet WANI -+	P/8-+	Wardens
LAN Settings DHCP Client List	Connection Type DNS MAC Address	#vid Connection	Network Name Security Wu-FI Protected Detug Guest Access Use as an Access Point
Parental Controls	Media Features	Fernal	URINERS
Viebalo 7 Ber	Interfactiveam Traffic Chart Necta Server Optional Software	Port Forwarding NAC Address Filtering ONZ CONS WIMI Ping Blocking Security Log	Restart Router Restare Practicy Dofaults Souroflasting Sottings Restare Previous Dettings Promaer update System Sottings bot Availing

## Manually Configuring Your Router's Internet from the Dashboard

To set up your ISP connection manually, select "Connection Type" from the list under the header Internet WAN.

## **Dynamic Connection**

Cable and fiber customers generally require a dynamic connection. Some DSL customers require a PPPoE connection. Let's try dynamic first. Select "Dynamic" from the menu that appears and press "Next."

	What are WAN Settings?
Dynamic	Select connection type
<ul> <li>Optimiting type of connection is the most common. If you use a cable modern, then most likely you will have a dynamic connection. If you have a cable modern or you are not sure of your connection type, use this</li> </ul>	
Static	
A Static IP address connection type is less common than others. Use this selection only if your ISP gave you	
an IP address that never changes p PDDvat	
<ul> <li>PPDet # you use a DB, modern and/or your 15P gave you a User Name and Passeverit, then your connection type is DPD/bit. Use this connection type</li> </ul>	
5 PPTP	
[European Countries Only]. This type of connection is most common in European countries. If your GP has specifically told you that you use PPTP and has supplied you with the proper PPTP information, then use this	
option 6 Teletra BigPord	
<ul> <li>Teletra BigPond Use this option for Bigpond Cable and OptiusNet Cable connections only.</li> </ul>	
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Back to Connection Type To entry your Dynamic P softings, type in your information bolow and click "Dave" Next Rears	Cynamic A Dywane Type of connection is the most common. If you use a cade moders. Their most lifety you will have a dynamic convection. If you have a cateler moder or you are not issue of you connection type, cale this.

A host name is generally not required. Hit "Save." The Router will restart.

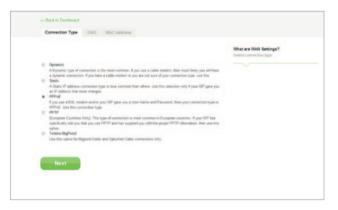
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belkin.303		: belkin
Features		
Ø	2	55
Parental Controls	Access Control	Media Server
*	*	핟
DHCP Client List	Guest Access	Optional Software

If after a few minutes your Internet Status says "Online," you're done! You can surf the Internet.

If these steps do not work, try restarting your modem and repeating the process.

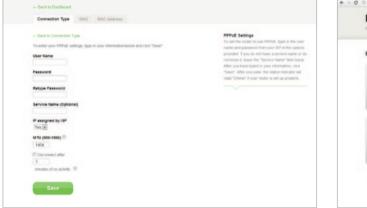
If not, we'll try a PPPoE connection next.

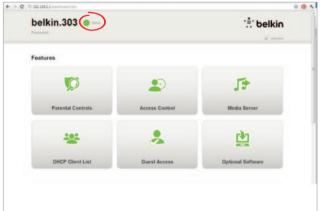
## **GETTING STARTED**



#### **PPPoE Connection**

Some DSL customers require a PPPoE connection. Select PPPoE this time and press "Next."





Enter the username and password supplied by your Internet provider and click "Save." Ignore the other fields unless required by your ISP. The Router will restart. If after a few minutes your Internet Status says "Connected," you're done! You can surf the Internet.

If these steps do not work, try restarting your modem and repeating the process.

# **Connect Your Wireless Devices**

#### iOS

(iPhone, iPad, and iPod touch)

- 1. Open the Settings app and select the Wi-Fi menu item.
- 2. Select your wireless network from the list that appears there. If asked to do so, enter the network password.

#### Mac OS® X

Your Mac<sup>®</sup> provides a menu of available wireless networks at the right end of the menu bar.

- 1. Click on the icon showing wireless waves.
- 2. Select your wireless network from the list that appears there. If asked to do so, enter the network password.

#### Android<sup>™</sup>

(phones and tablets)

- 1. Open the Settings app and select Wireless and Network.
- 2. From there, select Wi-Fi to see the list of available networks.
- 3. Select your wireless network from the list. If asked to do so, enter your network password.





## **GETTING STARTED**

## Windows® 7

Your computer provides a menu of available wireless networks at the right end of the task bar.

- 1. Left-click on the icon that looks like signal strength bars.
- 2. Select your wireless network from the list. If asked, enter your network password (network key).

#### Windows Vista® and Windows XP

Your device provides a menu of available wireless networks at the right end of the task bar.

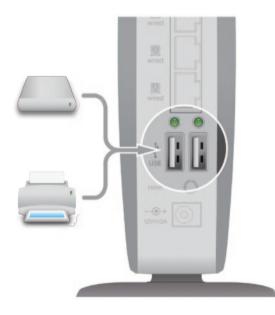
- 1. Right-click on the icon that shows a computer with wireless waves (XP) or two computers (Windows Vista).
- 2. Choose "View Available Wireless Networks (XP)" or "Connect to a network (Vista)" from the menu.
- 3. Select your wireless network from the list. If asked, enter your network password (network key).





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# Adding USB Devices



#### Adding a Drive

You can share a USB hard drive or flash drive to your network via your Router's USB port. Once connected, you can share files and music with other computers and devices within your network.

Plug your USB hard drive into the USB port on the back of your Router.

You can manually check the status of your shared drive by visiting the USB Print and Storage Manager. If you have difficulty sharing a drive on your network, please see the "Troubleshooting" section of this manual.

A few USB hard disks require more power than the Router's USB port provides. In these cases, you may notice the drive failing to come on or remaining on for a short time. If your disk has an optional power supply, please use it while the disk is attached to your Router.

#### Adding a Printer

You can add a printer to your network via your Router's USB port. Once connected, you can print from various computers and wireless devices within your network.

Plug your printer's USB cable into the USB port located on the back of your Router.

You can manually check the status of your printer by visiting the USB Print and Storage Manager, found under the Belkin icon displayed in your system tray (Windows) or menu bar (Mac). If you have difficulty sharing a printer on your network, please see the "Troubleshooting" section of this manual.

**Note:** Each computer that will use the printer must have both the Belkin software and the printer's driver installed. If the print driver is not installed, you will be asked to install it by the Belkin USB Print and Storage Manager.

## Adding Other USB Devices

Other USB devices may also be shared via your Router. Plug your device into the USB port located on the back of your Router.

Computers running the Belkin USB Print and Storage Manager will be able to make use of the shared device.

# **Bundled Software**

#### USB Print and Storage Manager

The USB Print and Storage Manager helps to manage and monitor the use of your USB printers, scanners, hard drives, and other devices that are connected to your Router's USB port and shared across your network.

## **Guest Access**

You can allow guests to use your Internet connection without joining your personal network. The network name and password for the guest network is located on the network information card found under the foot of your Router.

A person using your guest network will be able to join without a password, but will be shown a login page when they attempt to surf the Web. They will need to enter the guest password into this page to continue.

# Media Server by myTwonky

Media Server by myTwonky lets your Router stream music, movies, and photos to different DLNA/UPnP devices on your network.

In order to use Media Server by myTwonky, you will need to insert a USB storage device with media content into a free USB port on the back of your Router. Your Router will begin to make your content available to other devices on your network automatically.

If you want to configure Media Server by myTwonky, visit http://router/ and choose "Media Server."

There are several settings in the configuration page:

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DLNA Server * 0 0 00 Server hase note: 010, Beactioner	₩TWONKY	Battin Hada farver present by Twatig Entry present more plotter, and relative comments tragg sig (2,04), out one connects to pare related for among the "Among a site of stability transport connection fractional connections"
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These are no USB down connected to the mater		
Save		

DLNA Server:	Enables or disables your media server
Server Name:	The name under which other devices will see your content
Refresh:	Re-scans your USB storage devices for media content
Shared Drives:	Shows information about and status of each of your attached drives. You can see the name of the drive, its capacity, and whether media is being served from it or not.

When you click "Save," your Router will save your changes.

Back to Dashboard	
Website Filter	
Filtering Options	What is the This serves unsafe/hard
Block Malicious, Adult and other non-family friendly sites	Norton Is liphone
Biocks malware, phishing, and scam sites and also sites that contain sexually explicit mater mature content, abortion, alcohol, tobacco, crime, cult, drugs, gambling, hate, suicide or vi	nal
O Block metorous and adult sites	
Blocks materies phishing, scam sites and sites that contain sexually explicit content	
D Block malicious sites	
Blocks matware, phishing and scam sites	
Ro Filter	
To change your DNS address please continue to internet WAN > DNS	

# Website Filters. Powered by Norton

Web filters provide a first layer of whole-home Internet protection to guard you from unsafe and inappropriate websites on any device on your network.

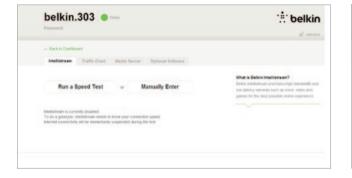
#### There are four different filtering options:

- 1. Block malicious, adult, and other non-family-friendly sites
- 2. Block malicious and adult sites
- 3. Block malicious sites
- 4. No filters

If you think a site should be added to the filtering list, submit a request at safeweb.norton.com.

#### Content filtering may not work as intended if:

- **1.** You are connecting through a VPN router.
- 2. You are routing traffic through a proxy server.
- 3. You have previously visited the site and it has been stored in your cache.
- 4. You manually set the DNS servers on your computer, tablet, or smartphone.



#### belkin.303 · belkin Intellistream Traffic Chart Media Server Optional Software What is Belkin Intellistream? Internet connectivity is momentarily suspended during the test. Speed Test | Running +7 4 Download $\mathbf{T}$ Upload Cabral Sec. 0 0 0

#### Once complete you will see the results.

Intellistream prioritizes video and gaming traffic for a better online entertainment experience.

There are two ways to enable Intellistream:

**Run a Speed Test:** 

Intellistream QoS

In order for Intellistream to provide you the best media experience, your Router needs to know what your approximate Internet speeds are.

Click "Run a Speed Test" and the test will begin.

Speed Fed: Educ Interest Fix works (1100).	What is Bakin Intelliging and T Bakin intelliging portage type-backed mediate ywnesis such action, who as
What is Beach interface want? Mean international produces type- demonstration and produces type- servers marked and an value is general Faits. Data between the worker & 1.1000.	What is Bakin Intelliging and T Bakin intelliging portage type-backed mediate ywnesis such action, who as
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Maps Maps	Maps Maps

If your Internet speed is greater than 70Mbps when downloading, Intellistream QoS will only improve your uploading experience.

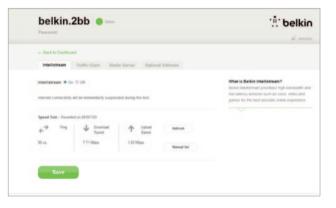
Refresh – This will retest your Internet speed.

When you click "Save," your Router will save your changes.

## **ADDITIONAL CAPABILITIES**

**Manual set** – This will let you set your approximate Internet speeds. If you do not know your Internet speeds, contact your ISP.

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Back to Daubtoard Instituteen Traffic Chart Mella Server: Optional Software	
Speed Test : Ditte Idnases the Auriter 8 1 1000 United Developed Speed Speed Speed Speed Speed States	What is Debin Intelligence. <sup>1</sup> Note: embeddings by bencheding in the security stands such as well as the security games for the first possible intere represence.
To engle Intelligences Save	



When you click "Save," your Router will save your changes.

Intellistream is now enabled.

# **IPv6 Configuration**

A new version of Internet Protocol (IP) uses a 128-bit address to implement additional features that are not present in current IP addresses.

Contact your ISP to inquire about their support for IPv6.

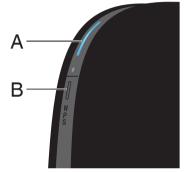
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- Back to Dashboard			
IPv6 Connection			
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Save			

## Pass-Through

Devices connected to your Router can talk to each other using native IPv6 packets, but information will be sent to all connected devices. Pass-through is not efficient and is not recommended for consistent use.

## **GETTING TO KNOW YOUR ROUTER**

## **Front Panel**



#### A) Router Status Light

Your Router's status is shown by the light on the front.

Off: The Router is not plugged into a power source.

Blinking Blue: The Router is starting up.

Solid Blue: The Router is connected to the Internet.

**Solid Amber:** The modem is detected but the router is not connected to the internet

Blinking Amber: The Router can't detect the modem. Either the modem is off, is not plugged into the Router, or is unresponsive.

## B) Wi-Fi Protected Setup (WPS) Light and Button

The WPS button on the front of your Router can be used to help establish a secure connection between your Router and other WPS-enabled Wi-Fi devices such as computers. To use the WPS feature on your Router, see "Getting Started > Adding Computers to Your Network > Using the WPS Button".

The small light near the WPS button shows what is happening while you are using WPS to establish a connection.

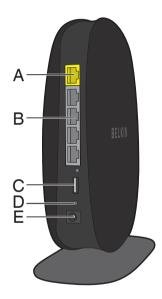
Off: Idle

**Blinking Blue:** The Router is listening for a WPSenabled computer or other device.

**Solid Blue:** The Router has made a secure connection with the computer or other device.

Amber: A connection was not created.

## **Back Panel**



#### A) Modem (WAN) Connector

Connect your modem to this port using an Ethernet cable.

#### B) Wired (LAN) Connectors

Connect computers and other wired network devices to these ports using Ethernet cables.

#### C) USB Port

USB printers, disks, and other USB devices plugged into this port will be shared on your network. Each USB port has a light that indicates its status.

Off: No USB device is connected or the attached USB device is not in use.

**Blinking:** Please wait to unplug the device until the light turns off.

**On:** The USB device is connected and being shared on your network.

#### D) Reset Button

This button is used to restart your Router in rare cases when it functions incorrectly. Resetting the Router will preserve your settings. This button may also be used to restore the factory default settings. Please see the Troubleshooting section for more information.

#### E) Power Connector

Connect the included power supply to this jack.

## **Technical Features**

#### Integrated 802.11n Wireless Access Point

Utilizing Dual-Band Network technology, your Router creates two separate networks (one at 2.4GHz band and the other at 5GHz band), allowing increased bandwidth to all your connected wireless devices and computers.

#### **NAT IP Address Sharing**

To save you the cost of adding IP addresses per computer in your house, your Belkin Router uses Network Address Translation (NAT) technology, allowing you to share a single IP address across your network.

#### SPI Firewall

Your Router is equipped with a firewall that will protect your network from a wide array of common attacks and viruses.

#### Universal Plug-and-Play (UPnP) Compatibility

The UPnP (Universal Plug-and-Play) feature in your Router offers seamless operation of voice and video messaging, games, and other applications that are UPnP-compliant.

#### Web-Based Advanced User Interface

You can easily make changes to your Router's advanced settings through your web browser. These changes can be made from any computer on your network.

#### **Belkin Router Monitor**

The Belkin Router Monitor application helps you to monitor your Router's status and change network settings.

#### Integrated 4-Port 10/100 Switch

Your Router has a built-in, 4-port network switch to allow your wired computers to share: printers, data, MP3 files, digital photos, and much more.

#### **USB** Port

The USB port lets you plug in printers, hard drives, and other USB devices to share across your network.

## **System Requirements**

Router

Broadband Internet connection such as a cable or DSL modem with RJ45 (Ethernet) connection

At least one computer with an installed network interface adapter

TCP/IP networking protocol installed on each computer

RJ45 Ethernet networking cable

Internet browser

#### Setup Software

A computer running Windows<sup>®</sup> XP SP3 or higher, Windows Vista<sup>®</sup>, or Windows 7; or Mac OS<sup>®</sup> X v10.5 or v10.6 only

Minimum 1GHz processor and 512M BRAM

600MB of free hard-drive space for installation

#### **USB Print and Storage Manager**

Windows XP SP3 or higher or Windows Vista; or Mac OS X v10.5 or v10.6 only

Minimum 1GHz processor and 512MB RAM

50MB of free hard-drive space for installation

## Enabling Auto Update on Your Belkin Router

The Router has the capability to automatically check for a newer version of firmware and alert you when it's available. You can choose to download the new version or ignore it. Auto Update is disabled by default. If you want to enable it, select "Enable" and click "Save".

**Note:** We recommend you use a computer that has a wired connection to the Router.



#### Setup steps:

1. Open a web browser on the computer.

2. In the address bar of the web browser, type "http://192.168.2.1".

3. Click on "System Settings" in the Router Links section on the dashboard.

Auto Update Firmware Enabling: ADVANCED FEATURE! Allows you to automatically check the availability of firmware updates for your router. - Auto Update Firmware Enable / Disable @ On @ Off

- 4. Toward the lower-half side of the screen you will find "Auto Update Firmware Enabling."
- 5. Select "Enable" by clicking the radio button and then click "Save" at the bottom of the screen.

# Updating the Router's Firmware via the Web Interface

The following steps show you how to update your Router's firmware using its web interface. You do not need to be connected to the Internet as this interface is built into the Router itself.

#### Setup steps:

- 1. Locate and download the firmware file from the Belkin support site. (Type your part number into the search box in the top right corner and look for "Firmware" in the title.)
- 2. Save the file to a location on your computer where you can get to it easily, such as your desktop.
- **3.** Connect the computer to one of the four LAN ports on the Router (refer to image).
- 4. Open a web browser on the computer.
- 5. In the address bar of the web browser, type "http://router" or "http://192.168.2.1" and press "Enter" on your keyboard.

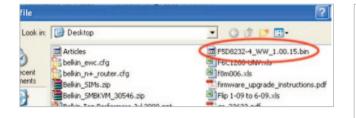


Router Links			
LAN Setup	Internet WANI	1P40-+	Wireless -+
LAN Settings DHCP Client Last	Connection Type DNS MAC Address	IPv6 Connection	Network Name Becurfly Wi-Fi Protected Setup Gaett Access Use as an Access Point
Parental Controls	Media Features	Ferrical	Litilites
Websile Filter	Intellistream Traffic Chart Media Server Optional Software	Port Forwarding MAC Address Filtering DMZ CONS WMN Ping Blocking Security Log	Restart Router Restore Factory Defaults SaveBlackup Bettings Boolers Immona Settings Limmane Update System Settings Setti Healing

6. Click on "Firmware Update" toward the bottom.

Firmware Version		
3.03.02 (Jul 20 2012 1	12:59:37)	
Check for New Firm	ware Version	
Check Firmware		
Choose File No file	chosen	
Update		

- 7. Click the "Choose File" button toward the middle of the screen to search for the file you saved previously.
- Note: The firmware version in the image above is depicted as an example. Your file name will vary depending on your model and version.



Firmware Version
3.03.02 (Jul 20 2012 12:59:37)
Check for New Firmware Version
Check Firmware
Update Firmware Choose File No file chosen
Update

8. Select the firmware file by left-clicking on it and then click the "Open" button in the lower-right corner of the window. This will take you back into the Router's interface.

- 9. Click the "Update" button.
- **10.**A prompt asking, "Are you sure you want to continue with upgrading?" will appear. Click "OK".
- 11. A second prompt will open telling you the Router will not respond during the upgrade and warning you not to remove the power supply from the Router. Click "OK" once more.

Congratulations. The firmware has been updated successfully.

## **Resetting the Router**

#### Reset Button - Red

The "Reset" button is used in rare cases when the Router may function improperly. Resetting the Router will restore the Router's normal operation while maintaining the programmed settings. You can also restore the factory default settings by using the "Reset" button. Use the restore option in instances where you may have forgotten your custom password.

#### **Resetting the Router**

Push and release the "Reset" button. The lights on the Router will momentarily flash. The "Router" light will begin to blink. When the "Router" light becomes solid again, the reset is complete.

## **Restoring Your Router to Factory Defaults**

Press and hold the "Reset" button for at least 5 seconds, and then release it. The lights on the Router will momentarily flash. The "Router" light will begin to blink. When the "Router" light becomes solid again, the restore is complete.

### Restoring the Router to Default Settings Using the Web Interface

#### Symptoms

You need to restore the factory defaults using the web interface. This may be because the Router is not performing as expected or you wish to remove all previously configured settings.

#### Setup steps

- 1. Open a web browser on the computer.
- 2. In the address bar of the web browser, type "http://router" or "http://192.168.2.1".



 Click on "Restore Factory Defaults" in the left-hand column under the "Utilities" heading.





4. Click on the "Restore Defaults" button.

- A warning box will open that says, "Warning: All your settings will be lost. Are you sure you want to do this?" Click "OK".
- 6. The Router will begin the restoring process. Once the restore is complete, the Router will reboot.

Note: This may take several minutes.

Your Router has successfully been restored to its factory settings.

#### I can't connect to the Internet wirelessly.

If the light on the front of the Router is solid blue, then your Router is connected to the Internet. You may not be connected to the Router's wireless network. Please refer to "Adding Computers to Your Network" in this manual for instructions.

If your Windows XP computer is running SP2, you will not be able to set up the Router via the wireless setup process. You will need to either update to Windows XP SP3 or complete the setup via a wired connection.

## I can't connect to the Internet wirelessly and my network name is not listed in Available Networks.

- 1. Verify that your Router is on and the front-panel light shows solid blue.
- 2. If you are far from the Router, you might try moving closer to see if you might have been out of range.
- Using a computer attached to the Router via a network cable, visit <u>http://router/</u> and ensure that "Broadcast SSID" is ON. This setting is found on the "Channel and SSID" page.

My wireless network performance is slow, inconsistent, suffers from weak signal, or I'm having difficulty maintaining a VPN connection.

Wireless technology is radio-based, which means connectivity and the throughput performance between devices decreases when the distance between devices increases. Other factors that will cause signal degradation (metal is generally the worst culprit) are obstructions such as walls and metal appliances. Note also that connection speed may decrease as you move farther away from the Router.

In order to determine if wireless issues are related to range, we suggest temporarily moving the computer within 10 feet from the Router if possible.

Changing the wireless channel—Depending on local wireless traffic and interference, switching the wireless channel of your network can improve performance and reliability. See the section titled "Changing the Wireless Channel" for instructions on how to choose other channels. Limiting the wireless transmit rate—Limiting the wireless transmit rate can help improve range and connection stability. Most wireless cards have the ability to limit the transmission rate. To change this property in Windows, go to the Windows Control Panel, open "Network Connections", and double-click on your wireless card's connection. In the properties dialog, select the "Configure" button on the "General" tab, then choose the "Advanced" tab and select the rate property.

Wireless client cards are usually set to automatically adjust the wireless transmit rate for you, but doing so can cause periodic disconnects when the wireless signal is too weak; as a rule, slower transmission rates are more stable. Experiment with different connection rates until you find the best one for your environment. Note that all available transmission rates should be acceptable for browsing the Internet. For more assistance, see your wireless card's user manual. I've installed this new Router and some of my network clients (computers, game consoles, etc.) are now unable to connect.

Your new Router came pre-configured with a network name and password, found printed on an attached card. All clients must use this network name and password to connect wirelessly to your Router. You will need to find the network settings on your client, select the network name printed on the card from the list of available networks, and enter the password when prompted to join the wireless network.

#### Does the Router support Wireless Protected Access (WPA) security?

The Router ships with WPA/WPA2 security turned on. Windows XP and some older network hardware may require a software update to support WPA/WPA2.

#### I am having difficulty setting up WPA security on my Router.

- Log in to your Router by visiting <u>http://router/</u> with your web browser. Click on the "Login" button in the top right-hand corner of the screen. You will be asked to enter your password. If you have never set a password, leave the "Password" field blank and click "Submit".
- 2. Click "Wireless" in the left-hand menu. Then click "Security" just below that.
- 3. Select the "WPA/WPA2" option.
- Enter a password. This can be from 8–63 characters of your choice, including spaces and punctuation, OR a 64-digit hexadecimal number (using only the numbers 0–9 and letters A–F).

 Click "Apply Changes" to finish. Your wireless connection is now encrypted. Each computer using your wireless network will need to use the new key.

**Note:** If you are configuring the Router over a wireless connection, you will have to re-connect to the Router after changing any security settings.

**Note:** Some older networking hardware supports only WEP encryption. If your older computers cannot connect to your network, try 128-bit or 64-bit WEP, or seek software updates from their manufacturers.

#### I am having difficulty setting up Wired Equivalent Privacy (WEP) security on my Router.

- Log in to your Router. Visit <u>http://router/</u> with your web browser. Click on the "Login" button in the top right-hand corner of the screen. You will be asked to enter your password. If you have never set a password, leave the "Password" field blank and click "Submit".
- 2. Click "Wireless" in the left-hand menu. Then click "Security" just below that.
- 3. Select the "128-bit WEP" option.
- 4. You may type in a WEP key manually, or generate one from a passphrase. Type a phrase in the "Passphrase" field and click the "Generate" button. A WEP key is composed of 26 hexadecimal digits (0-9, A-F.. For example, C3 03 0F AF 4B B2 C3 D4 4B C3 D4 EE 74 is a valid 128-bit WEP key.

 Click "Apply Changes" to finish. Your wireless activity is now encrypted. Each computer using your wireless network will need to use the new key.

**Note:** If you are configuring the Router over a wireless connection, you will have to re-connect to the Router after changing any security settings.

**Note:** Some older networking hardware supports only 64-bit WEP encryption. If your older computers cannot connect to your network, try 64-bit WEP.

#### A disk I plugged into the USB port is not showing up on my computer or in Memory Safe.

- 1. Is the light on over the USB port that the disk is plugged into? If not, try unplugging and re-plugging the disk. Please check that the USB connector is firmly plugged into the Router.
- 2. If your disk has an optional power supply, please use it while the disk is attached to your Router.
- 3. The Router supports FAT16, FAT32-, or NTFS-formatted disks. Disks in other formats will not appear in the Finder (Mac OS X) or Windows Internet Explorer.

#### A disk I plugged into the USB port is not coming on or remains on only for a short time.

Some drives require more power than the router's USB port provides. If your disk has an optional power supply, please use it while the disk is attached to your Router.

# A printer I plugged into the USB port is not showing up on my computer.

- 1. Is the light on over the USB port that the printer is plugged into? If not, try unplugging and re-plugging the printer. Please check that the USB connector is firmly plugged into the Router.
- 2. To print to a printer attached to the Router, your computer must have that printer's driver installed. Please check that the driver is installed.
- 3. The printer may not be set to auto-connect. Via the Belkin Router Manager, open the USB Print and Storage Center. Check that the printer appears in the list of available devices. View the properties of the printer, and check that "auto-connect" is selected.

## A different sort of USB device that I plugged into the USB port is not showing up on my computer.

Most USB devices other than disks and printers must be accessed via the USB Print and Storage Center.

- 1. Is the light on over the USB port that the device is plugged into? If not, try unplugging and re-plugging the device. Please check that the USB connector is firmly plugged into the Router.
- 2. Via the Belkin Router Manager, open the USB Print and Storage Center. Check that the device appears in the list of available devices.
- Select the device and click the "Use" button. The device will be virtually connected to your computer until you choose to "Stop Using" the device, or another person requests use of the device.

## TROUBLESHOOTING, SUPPORT, AND WARRANTY

### **Technical Support**

US http://www.belkin.com/support

UK http://www.belkin.com/uk/support

Australia http://www.belkin.com/au/support

New Zealand http://www.belkin.com/au/support

Singapore 1800 622 1130

Europe http://www.belkin.com/uk/support

You can find technical-support information on our website, www.belkin.com, by navigating to the tech-support section.

If you want to contact technical support by phone, please call the number you need from this list\*:

\*Local rates apply.

COUNTRY	NUMBER	INTERNET ADRESS
AUSTRIA	0820 200766	www.belkin.com/de/networking/
BELGIUM	07 07 00 073	www.belkin.com/nl/networking/ www.belkin.com/fr/networking/
CZECH REPUBLIC	239 000 406	www.belkin.com/uk/networking/
DENMARK	701 22 403	www.belkin.com/uk/networking/
FINLAND	0972519123	www.belkin.com/uk/networking/
FRANCE	08 - 25 54 00 26	www.belkin.com/fr/networking/
GERMANY	0180 - 500 57 09	www.belkin.com/de/networking/
GREECE	00800 - 44 14 23 90	www.belkin.com/uk/networking/
HUNGARY	06 - 17 77 49 06	www.belkin.com/uk/networking/
ICELAND	800 8534	www.belkin.com/uk/networking/
IRELAND	0818 55 50 06	www.belkin.com/uk/networking/
ITALY	02 - 69 43 02 51	www.belkin.com/it/networking/
LUXEMBOURG	34 20 80 85 60	www.belkin.com/uk/networking/
NETHERLANDS	0900 - 040 07 90 €0.10 per minute	www.belkin.com/nl/networking/
NORWAY	81 50 0287	www.belkin.com/uk/networking/
POLAND	00800 - 441 17 37	www.belkin.com/uk/networking/
PORTUGAL	707 200 676	www.belkin.com/uk/networking/
RUSSIA	495 580 9541	www.belkin.com/networking/
SLOVAKIA	08000 04614	www.belkin.com/networking/
SLOVENIA	0800 80510	www.belkin.com/networking/
SOUTH AFRICA	0800 - 99 15 21	www.belkin.com/uk/networking/
SPAIN	902 - 02 43 66	www.belkin.com/es/networking/
SWEDEN	07 - 71 40 04 53	www.belkin.com/uk/networking/
SWITZERLAND	08 - 48 00 02 19	www.belkin.com/de/networking/ www.belkin.com/fr/networking/
UNITED KINGDOM	0845 - 607 77 87	www.belkin.com/uk/networking/
OTHER COUNTRIES	+44 - 1933 35 20 00	

# Belkin International, Inc., Limited 2-Year Product Warranty

#### What this warranty covers.

Belkin International, Inc. ("Belkin") warrants to the original purchaser of this Belkin product that the product shall be free of defects in design, assembly, material, or workmanship.

#### What the period of coverage is.

Belkin warrants the Belkin product for two years.

#### What will we do to correct problems?

#### Product Warranty.

Belkin will repair or replace, at its option, any defective product free of charge (except for shipping charges for the product). Belkin reserves the right to discontinue any of its products without notice, and disclaims any limited warranty to repair or replace any such discontinued products. In the event that Belkin is unable to repair or replace the product (for example, because it has been discontinued), Belkin will offer either a refund or a credit toward the purchase of another product from Belkin.com in an amount equal to the purchase price of the product as evidenced on the original purchase receipt as discounted by its natural use.

#### What is not covered by this warranty?

All above warranties are null and void if the Belkin product is not provided to Belkin for inspection upon Belkin's request at the sole expense of the purchaser, or if Belkin determines that the Belkin product has been improperly installed, altered in any way, or tampered with. The Belkin Product Warranty does not protect against acts of God such as flood, lightning, earthquake, war, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, damage due to low voltage disturbances (i.e. brownouts or sags), non-authorized program, or system equipment modification or alteration.

#### How to get service.

To get service for your Belkin product you must take the following steps:

- Contact Belkin Tech Support at the number listed on page 52, within 15 days of the Occurrence. Be prepared to provide the following information:
  - a. The part number of the Belkin product.
  - b. Where you purchased the product.
  - c. When you purchased the product.
  - d. Copy of original receipt.

2. Your Belkin Customer Service Representative will then instruct you on how to forward your receipt and Belkin product and how to proceed with your claim.

Belkin reserves the right to review the damaged Belkin product. All costs of shipping the Belkin product to Belkin for inspection shall be borne solely by the purchaser. If Belkin determines, in its sole discretion, that it is impractical to ship the damaged equipment to Belkin, Belkin may designate, in its sole discretion, an equipment repair facility to inspect and estimate the cost to repair such equipment. The cost, if any, of shipping the equipment to and from such repair facility and of such estimate shall be borne solely by the purchaser. Damaged equipment must remain available for inspection until the claim is finalized. Whenever claims are settled, Belkin reserves the right to be subrogated under any existing insurance policies the purchaser may have.

#### How state law relates to the warranty.

THIS WARRANTY CONTAINS THE SOLE WARRANTY OF BELKIN. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR, EXCEPT AS REQUIRED BY LAW, IMPLIED, INCLUDING THE IMPLIED WARRANTY OR CONDITION OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SUCH IMPLIED WARRANTIES, IF ANY, ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

IN NO EVENT SHALL BELKIN BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR MULTIPLE DAMAGES SUCH AS, BUT NOT LIMITED TO, LOST BUSINESS OR PROFITS ARISING OUT OF THE SALE OR USE OF ANY BELKIN PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states do not allow the exclusion or limitation of incidental, consequential, or other damages, so the above limitations may not apply to you.

# Declaration of Conformity with electromagnetic compatibility and electromagnetic interference

We, Belkin International, Inc., of Schiphol-Rijk, Netherlands, declare under our sole responsibility that the device, F9K1102, complies with Directives stated in our EU declaration which can be obtained from our website given below.

#### **Caution: Exposure to Radio Frequency Radiation.**

This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body

#### **CISPR 22 Interference Notice**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to the requirements of EN 55022 and EN 55024. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

## **Europe – EU Declaration of Conformity**

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC, the EMC Directive 2004/108/EC, and the low-voltage Directive 2006/95/EC. A copy of the European Union CE marking "Declaration of Conformity" may be obtained at the website: www.belkin.com/doc

For information on product disposal please refer to

http://environmental.belkin.com

## **General Safety Information:**

- For indoor installation only
- For installation with supplied power adapter only
- The supplied power adapter is the product's switch-off device. The base socket must be near the product and easily accessible.



## belkin.com

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