

#### **Quick Installation Guide**

### **RANGER SERIES**

## 150Mbps Wireless Green Broadband Router

## DG-BR4000NG



#### FCC warning:

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limitations 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 to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into a different outlet from that to which the receiver is connected.
- Consult your local distributors or an experienced radio/TV technician for help.
- Shielded interface cables must be used in order to comply with emission limits.

Changes or modifications to the equipment, which are not approved by the party responsible for compliance could affect the user's authority to operate the equipment.

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#### Trademarks:

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#### **Package Contents**

The following items should be present in your package:

- DG-BR4000NG Wireless Broadband Router
- Switching power adapter (5V DC, 1A)
- Rubber feet (4 Nos.)
- · Quick Installation Guide
- Installation Guide CD (includes User Manual, Utility & Firmware)
- · Patch chord (1 No.)

Make sure that the package contains above items. If any of the listed items is damaged or missing, please contact your retailer immediately.

#### **Product Overview**

Thank you for purchasing DG-BR4000NG 150Mbps 802.11n Wireless Green Broadband Router! DG-BR4000NG is an energy-efficient router which helps to save more power by using an embedded power amplifier. DG-BR4000NG is a power efficient router which saves host power by off-loading CPU when WLAN is idle. The Smart Tx Power Control mechanism in DG-BR4000NG transmits optimum power depending upon the distance of wireless clients from the router. DG-BR4000NG is the best choice for Small office / Home office users, all computers and network devices can share a single xDSL / cable modem internet connection at high speed. Easy install procedures allow computer users to setup a network environment in very short time - within minutes, even inexperienced users. When the number of your computers and network-enabled devices grow, you can also expand the number of network slots by simply connecting a hub or switch, to extend the scope of your network.

#### **Product Features**

- High Internet Access throughput
- · Allows multiple users to share a single Internet line
- Share a single Cable or xDSL internet connection
- · Access private LAN servers from the internet
- Four wired LAN ports (10/100M) and one WAN port (10/100M)
- Works with IEEE 802.11b/g/n wireless LAN devices
- Supports DHCP (Server/Client) for easy IP-address setup
- Supports multiple wireless modes like: AP, Station-Infrastructure, Wireless Bridge and Universal Repeater.
- Supports WISP mode for accessing Internet through wireless network
- Advanced network and security features like: Special Applications, QoS, DMZ, Virtual Servers, Access Control, Firewall.
- Allows you to monitor the router's status like: DHCP Client Log, System Log, Security Log and Device/Connection Status
- Easy to use Web-based GUI for network configuration and management purposes
- Remote management function allows configuration and upgrades from a remote computer (over the Internet)
- Provides Auto MDI / MDI-X function for all wired Ethernet ports.
- Supports Green WLAN for smart Tx power saving, Implicit Rx power saving and CPU offload.

#### **System Requirements**

The following system requirements are recommended

- Notebook or desktop computer with network adapter (wired/wireless)
- Internet connection, provided by xDSL or cable modem with a RJ-45 Ethernet port.
- Web browser (Microsoft Internet Explorer 4.0 or above, Netscape Navigator 4.7 or above, Opera web browser, or Safari web browser).
- An available AC power socket (100 240V, 50/60Hz)

#### **Front View**

Below shown is the product front view.



Users can verify router status from the LED indicators on the front panel. Below given is the LED description.

LED Name	LED Color	Light Status	Description	
P (Power)	Green	On	Router is switched on and correctly powered.	
		On	Wireless WPS function is enabled.	
WLAN	Amber	Off	Wireless network is switched off.	
		Flashing	Wireless LAN activity (transferring or receiving data).	
		On	WAN port is connected.	
WAN	Green	Off	WAN port is not connected.	
		Flashing	WAN activity (transferring or receiving data).	
		On	LAN port is connected.	
LAN (1~4)	Green	Off	LAN port is not connected.	
		Flashing	LAN activity (transferring or receiving data).	

#### **Rear View**

Below shown is the product Rear View.



Below given is the router interface description.

Interfaces	Description
Antenna	It is a 3dBi dipole antenna.
	Switch the button to activate or deactivate the wireless functions.
Radio ON/OFF	After switching the button, the router will be reset automatically for
	enabling the new setting.
	Reset the router to factory default settings (clear all settings) or
	start WPS function. Press this button and hold for 10 seconds to
Reset / WPS	restore all settings to factory defaults, and press this button for less
	than 5 seconds to start WPS function.
LAN (1 – 4)	Local Area Network (LAN) ports 1 to 4.
WAN	Wide Area Network (WAN / Internet) port.
Power	Power connector, connects to A/C power adapter.

#### **Hardware Installation**

Please follow the below mentioned instructions to build the network connection between your new WIRELESS router and your computers, network devices:

 Connect your xDSL / cable modem to the WAN port of the router by an Ethernet cable.





Please check all LEDs on the front panel. Power LED 'P' should be steadily ON, WAN and LAN LEDs should be ON. Check if the computer / network device connected to the respective port of the router is powered ON and correctly connected.

#### **Software Installation**

Insert the Setup CD into your CD-ROM drive of notebook/desktop computer.



2 Explore the CD and execute the "EZWizard.exe" file. Below given screen will appear. Click 'Next' to Continue.



Onnect one end of a network cable to the WAN port of the router and the other end to the DSL/Cable modem. Click 'Next' to continue.



Ocnnect one end of the provided network cable to one of the LAN ports (1~4) of the router and the other end to your computer. Click 'Next' to continue with the installation.



Power on the Router. It will take approximately 30 seconds for router to boot up completely. Ensure that all the LED's on the router are ON. If not, try the above steps again else click 'Next' to continue.

Home	Winkes Winkes Firmwore Ouick Name Security Upgrade Instalation User Manual Dut Instalation Quide
	Power on the Router
	Plug the included power adapter to the router and connect it to an outlet or power strip.
	Computer
	Back Next
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O Enter the Router's password to log in to the Router. The default password is "1234". It is recommended to change the router's password to protect it from being accessed by other users. If you do not wish to change the current password, you can leave "New Password" and "Confirm New Password" fields blank. Click 'Log in' to continue.

Home	Wireless Wireless Firmware Name Security Upgrade	Quick Installation Guide	User Manual Exit	
	Log in to the Router			
	Enter "1234" into the "Current Password" fi password (1234) to avoid unauthorized acc password, you can reset the router by pres	eld to log in to the n cess to your wireles ising and holding the	outer. Please change the de s router. If you forget the ro e reset button for 10 second	fault Jör's Is.
	Current Password:	••••		
	New Password:			
	Confirm Password:			
			Back	Log in
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Verify the Internet Connection Type the wizard has detected. If it is not correct, please configure it manually. Click 'Next' to continue.

Hame Wineless Winde Name Secur	ns Permeare Guids by Upgrade Installation User Manual Exit Guide Sectors
Configure Inter	net Connection Type
The wizard has detected If it is not correct. You car	the Internet connection type you use as below. Please configure it manually I contact your Internet Service Provider for this information.
O Dynamic IP	Your ISP automatically assigns you an IP address, most cable modern users use this type.
PPPoE	Your ISP requires you to provide the user name and password for your Internet Connection.
<ul> <li>Static IP</li> </ul>	
PPTP	
● L2TP	
	Bock Next
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Note: If you are not sure which Internet Connection Type you use, please contact your Internet Service Provider for this information.

**(3)** Enter the settings for your Internet Connection Type.

Dynamic IP (Cable Modem users): Click on 'Clone' to clone the MAC address of your PC with the WAN port of the router, then click 'Next' to continue.

Home Winniess Windens Firm Name Security Upg	ware Quick rade Installation Us Guide	er Manual Exit Bana digmaticaen
Configure Dynamic IP S	Settings	
Most cable modem users use this com computer connected to the Digisol Rou Please enter the Host Name if it is rep button to clone your computer's MAC a	section type. To set up this con der was originally connected to aired by your internet Service I address to the router.	nection, please make sure the the broadband modern. Provider: Click on "Cione"
Host Name:		
MAC Address:	0000000000	Clone
		Back Next
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PPPoE (DSL users): Enter the user name and password provided by your ISP then click 'Next'.

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Configure PPPoE xDSL Settings	
Please enter the user name and password provided by your i	
User Name:	(Example: username@sbcglobal.net)
Password: Bervice Name (Optional):	-
	Back Next
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Please wait while the Wizard tries to connect to the Internet. If you see the window "Internet Connection Succeed", your router has been successfully connected to the Internet. Please click 'Next' to configure the wireless settings.

Home Windows Windows Pinneare Duich Name Sacurity Upgrade Installation Guide	User Manual Exit Digital con
Internet Connection Succeed	
Click Next to continue configuring the wireless settings.	Next
JIGISOĽ	Service & Support Tol Free - 1989 209 3444 Regident@itigeol.com

Ocnfigure a name for your wireless network. Click 'Next' to continue.

Home Wireless Wireless Fin Name Security Up	mware Guick sgrade Installation Uav Guide	r Manual Exit	digities com
Configure Wireless Na	me for Your Router		
Configure a name (SSID) for your wir network with it. The default SSID is "(	reless network so you can alway Digisol'.		
Wireless Name (SSID):	Digisol (Example: myHome, john123.)		
		-	Next
<b>D</b> IGISOL		Service & Support Tell Free - 1800 209 3444 helpdesk@digisel.com	DG-BR4000NG

Configure the security key for your wireless network. Check 'Enable WPA Pre-Shared Key'. Enter 8 to 63 characters into WPA-Pre-Shared Key. Click 'Next' to continue.

Home Windess Windess Firmesre in Nome Security Upprote in	Dutick ballstoon User Manual Exit Dutic Dutide
Configure Wireless Security	
It is very important to set up wineless security to pro malicious users can easily access your valuable da WPA Pre-shared Key is the most secured encrystic Key and enter a 8 to 63 characters (alphanumeric,	tect your network safety and privacy. Hackers and ta if your wireless network lacks security protection. In for general users. Please enable the WPA Pre-Shared case sensitive) key to the "WPA Pre-shared key" field below.
Enable WPA Pre-Shared Key	
WPA Pre-Shared Key	Is the security key for your wireless network.)
	Bock Next
<b>I</b> GISOL	Service & Support Tel Free - 190 229 344 helpflock@digtact.com

Verify the settings you just configured for the Router. Click 'Finish' to restart the Router. This will take about 60 seconds.



# Congratulations! Your router configuration is now finished.

#### Connect to the router wirelessly

Users must configure their wireless notebook/desktop computer in order to establish a wireless connection to the router. The following instructions help in establishing a wireless connection between a Windows XP computer and the router.

• Right click the wireless icon in the system tray and click on "View Available Wireless Networks".

Change Windows Firewall	settings	
Open Network Connection	s	
Repair		
View Available Wireles	s Networks	

 A window displaying available wireless networks will open. Select the wireless network you wish to connect and then click on 'Connect'.

Vetwork Tasks	Choose	e a wireless network	
😴 Refresh network lst	Click an iter information	n in the list below to connect to a wireless network in range	or to get more
Set up a wireless network for a home or small office	(( - ))	digisol	
Related Tasks		To connect to this network, dick Connect. You might nee- information.	d to enter additional
Learn about wireless networking			
Change the order of preferred networks	((0))	tikona 18002090044	
Change advanced		Unsecured wireless network	0000
settings	((0))	abcd_efgh	
		Security-enabled wireless network (WPA2)	1000

 Enter the network security key if the wireless network you wish to connect has wireless encryption enabled. Click 'Connect'. The connection should now get established.

Anecwon	)" requires a network key unknown intruders from (
	then click Connect.
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#### Web Management of the router

- To access the web configuration of the router, assign a static IP address to your notebook/desktop computer in the subnet 192.168.2.X with the subnet mask 255.255.255.0 and gateway as 192.168.2.1. For example, assign the IP address 192.168.2.10.
- Open a web browser and enter "http://192.168.2.1" in the address bar, press 'Enter'. A login screen will appear, assign username as "admin" and password as "1234". Press 'OK' to Log in.

Connect to 192.16	8.2.1
<b>R</b>	G S
The server 192.168.2 username and passwo Warning: This server i password be sent in a without a secure conn	.1 at Default: admin/1234 requires a rd. s requesting that your username and insecure manner (basic authentication ection).
User name:	2
Password:	
	Remember my password
	OK Cancel

 Following screen will appear on successful Login. You can now configure the router through this web management page.

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DG-BR4000NG	Wireless Broadband
JIGISOL Hone General Setup Status Tools	Green Router
Open Multip	No or a DDL modern.
BARNA The Notes Today State advances produce to following infrantion along your Ministra Today Tendows Timose waves, Seed Tamice, and its	carent spectrag status.
Tools Winners Down Tool: Their Incluic Configuration tools, Primary upgrade and Event Configuration tool allow you to Stocky, Determining Frances for Primary Logical Stock Tool Prima	tary Oxfault setting for your day.
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#### FAQ

Following are the solutions to problems that may occur during the installation and operation of the DIGISOL DG-BR4000NG Wireless LAN Broadband Router.

- 1. Router cannot get connected to Internet.
  - Access the router's web configuration and go to 'Status' -> 'Internet Connection' menu and verify Internet connection status.
  - If you were previously able to connect a computer to Internet directly, try to do that again, and verify whether you can access Internet with your computer directly attached to the device provided by your internet service provider.
  - Check PPPoE user ID and password again.
  - Call your Internet Service Provider and verify whether there is some issue with their service.
  - Try to reboot the router and verify whether it connects to Internet or not.
  - Try to use IP address instead of hostname. If you can use IP address to communicate with a remote server, but can't use hostname, please check DNS setting.
- 2. Wireless client cannot locate the router.
  - Verify whether 'Broadcast ESSID' is set to off in router's web configuration.
  - Verify whether the antenna is properly connected and in correct direction.
  - Is your wireless client far away from your router? Try to get closer to the router.
  - Ensure that you input ESSID on your wireless client manually, if ESSID broadcast is disabled.

This product comes with lifetime warranty. For further details about warranty policy and product registration, please visit support section of www.digisol.com



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