

## **Quick Installation Guide**

# 150Mbps Wireless ADSL 2/2+ Broadband Router with USB Port

DG-BG4100NU



V4.0 2016-12-22

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#### Safety:

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.

### **Package Contents**

The following items should be present in your package:

- DG-BG4100NU 150MBPS WIRELESS ADSL2+ BROADBAND ROUTER
- Switching Power Adapter
- POTS Splitter
- Two RJ-11 cables
- One RJ-45 patch cord
- Quick Installation Guide
- Installation Guide CD (includes user manual, QIG & Utility)

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

The ADSL access device supports multiple line modes. It provides four 10/100Base-T Ethernet interfaces at the user end. Utilizing the high-speed ADSL connection, the device provides users with broadband connectivity to the Internet or the Intranet for high-end users like net bars and office users. It provides a downlink speed up to 24 Mbit/s and an uplink speed up to 1 Mbit/s.

The device supports WLAN access, as WLAN AP or WLAN router, to internet. It is compliant with IEEE 802.11,802.11b/g/n specifications and complies with WEP, WPA and WPA2 security specifications.

#### **Product Features**

- Supports various line modes.
- Supports external PPPoE dial-up access.
- Supports internal PPPoE/PPPoA dial-up access.
- · Supports leased line mode.
- Supports 1483B/1483R/MER access.
- Supports multiple PVCs (eight at most) and these PVCs can be isolated from each other.
- · Supports single PVC with multiple sessions.
- · Supports multiple PVCs with multiple sessions.
- Supports the binding of the ports and the PVCs.
- Supports the 802.1Q and 802.1P protocol.
- Supports DHCP server.
- Supports NAT / NAPT.
- · Supports static route.

- · Supports firmware upgrade: WEB/tftp/ftp.
- · Supports reset to factory default: reset, WEB.
- · Supports DNS relay.
- · Supports Virtual server.
- Supports DMZ functions.
- · Supports two-level passwords and usernames.
- Supports WEB interface.
- · Supports telnet CLI.
- Supports System status display.
- Supports PPP session PAP / CHAP.
- Supports IP filter function.
- Supports IP QoS function.
- · Supports remote access control.
- · Supports line connection status test.
- · Supports remote management (Telnet; HTTP).
- · Supports configuration file backup and restoration function.
- Ethernet supported such as Crossover Detection, Auto-Correction and polarity correction.
- Supports 3G failover and Mass storage function.

#### System Requirements

The following system requirements are recommended

- A 10BaseT/100BaseT Ethernet card installed on your PC.
- A hub or switch is available for connecting one Ethernet interface on the device and several Pcs.
- Operating system: Windows Vista, Windows 7, Windows 98SE, Windows 2000, Windows ME or Windows XP.
- Internet Explorer V7.0 or higher, or Netscape V4.0 or higher, or firefox 1.5 or higher.

#### **Top View**

· Below shown is the product top view.



The following table describes the LEDs of the device.

LEDs	Color	Status	Description
Power	Red	On	Device is initializing or initialization has failed.
	Reu	Off	Power is off.
	Green	On	Power is on.
	Green	On	Physical link is up
DSL	Green	011	
DSL	Green	Blinking	ADSL handshaking process is on or ADSL line unplugged.
	Green	On	Internet connection is established.
Internet		Blinking	Data is being transmitted or received.
		Off	Device is not connected to internet.
		On	PPoE/PPoA username-password not set or
	Red		wrong.
LAN	Green	On	PC is connected to LAN port
1/2/3/4	Green	Off	PC is unplugged/not connected.
USB	Green	On	USB device is plugged.
USB	Green	Off	USB devidce is not plugged.
	Green	On	Wireless is enabled.
WLAN		Blinking	Data is being transmitted or received.
		Off	Wireless is not enabled.
	Green	Blinking	WPS negotiation is enabled waiting for the
WPS			clients.
WPS		Off	WPS negotiation is not enabled on the
		5	device.

### **Rear View**

Below shown is the product rear view.



The following table describes the interfaces and buttons on the rear panel.

ltem	Description
Antenna	One 5dBi fixed diplole antenna.
DSL	RJ-11 interface, for connecting to the ADSL interface or a splitter using a telephone cable.
LAN4/3/2/1	RJ-45 interface, for connecting to the Ethernet interface of a computer or the Ethernet devices through an Ethernet cable/LAN Cable.
Power	Power interface, for connecting to the power adapter.
ON / OFF	Power switch, to power on or power off the device.

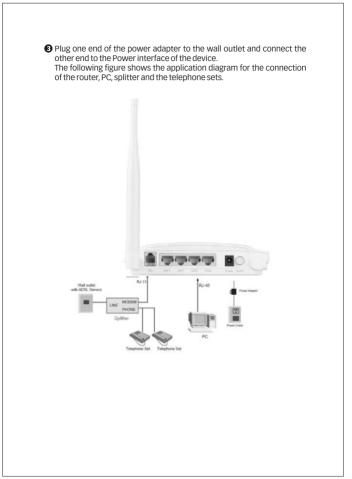
#### **Hardware Installation**

Connect the ADSL interface of the device and the router interface of the splitter through a telephone cable. Connect the phone to the Phone interface of the splitter through a telephone cable. Connect the incoming line to the Line interface of the splitter.

The splitter has three interfaces:

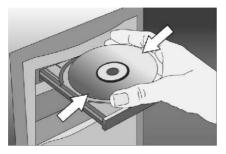
- -Line: Connect to a wall phone jack (RJ-11 jack).
- -Modem: Connect to the ADSL jack of the device.
- -Phone: Connect to a telephone set.

Connect the LAN interface of the device to the network card of the PC through an Ethernet cable (MDI/MDIX).



#### Software Installation

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



Explore the CD and execute the "India\_autorun.exe" file. Screen given below will be displayed. Click 'Start' to continue.



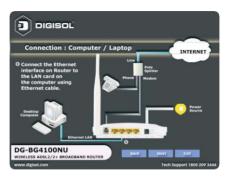
3 Connect the ADSL line and the phone line to the router. Click 'Next'.



Onnect the power adapter to the AC Mains and the other end to the power interface on the router. Push the power button on the router to power up the device. Click 'Next'.



© Connect the Ethernet interface on the router to the LAN card on the computer using the Ethernet cable. Click 'Next'.



After powering up the router, verify the status of the LED indicators on the front panel of the router. Click 'Next'.



Below as shown please select the "WAN Mode" type. Suppose you select "ADSL and 3G" option to setup 3G failover click "Next".

configure	: WAN Mode	
WAN Mode:	List and 34 C+++ Click Dropdown for more options	
WAN Mode	Description	
ADSL	If ADSL Internet Service is activated on telephone line.	
	If a compatible 3G USB Dongle with 3G service activated is plugged.	

8 Please select your 'Country' and ADSL service provider. VPI and VCI values will auto fill.

Cor	nfigure : ADSL (vpi,vci)		
	Please select your 'Country' and ADSL Service Provider. The values for VPI and VCI will auto fill Country: Sas Service Provider: 1972 • VPI: (0 ~ 255) 0 VCI: (2 ~ 6353)		
	Note: You can set different values for VPI and VCI as provided by your ISP. If your ISP is not listed in the 'Service Provider' list then select. 'OTHERS'. S41000U ARSE/Jr.* BROGRAMO ROUTER		

Select the network protocol for WAN interface. Click 'Next'.

DIGISOL		
Configure : ADSL Protocol		
Please select the type of over Ethernet as WAN in	network protocol for IP Iterface	
PPP over ATM (PPPcA)		
PPP over Ethernet (PPPoE)		
MAC Encapsulation Routing (MER)		
IP over ATM (IPoA)		
Bridging		
Encapsulation Mode		
VC/MUX		
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAND ROUTER	Back Next Exit	
www.digisol.com	Tech Support 1800 209 3444	

All the utility installation steps till here are the common steps to be followed for the modes.

Following are the steps for configuring PPPoE connection:

Denter the username and password provided by your ISP. Click 'Next'.

DIGISOL	
Configure : ADSL PPPoE	
Please enter the Usernar provided by your ISP	ne and Password
User ID:	
Password:	
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAND ROUTER	Back Next Exit
www.digisol.com	Tech Support 1800 209 3444

Configure the 3G Dialup parameters and click 'Next'.

DIGISOL		
Configure : 3G Dialup		
Please connect the 3G USB Do dialer parameters for 3G Dong (Leave it blank if no 3G USB dong	le provided by your ISP	
Username :		
Password :		
APN Code :		
Pin Code :		
Dialup Number :		
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAND ROUTER	Back Next Exit	
www.digisol.com	Tech Support 1800 209 3444	

Deconfigure a wireless name (SSID) for your router. Click 'Next'.

DIGISOL	
Configure : Wireless Nan	ne (SSID)
Configure a name (SSID) fo so you can always identify	or your wireless network, your wireless network.
Wireless Name (SSID):	Digital [Example: MyNetwork, WIFI123]
Wireless Channel:	Auto Stan
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAND ROUTER www.digisol.com	Back Next Exit

Configure the wireless security. Click 'Next'.

DIGISOL	
Configure : Wireless Secu	urity
	is the most secured encryption for general red key and enter a 8 to 63 characters
Security Mode:	WPA2-Mored
Pre-Shared Key:	
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAND ROUTER	Back Next Exit
www.digisol.com	Tech Support 1800 209 3444

The next screen is a summary of the wireless settings of the router.

DIGISOL	
Summary : Wirele	ess Configuration
Internet Connection Type: Wireless Name (SSID): Wireless Security: Security Key:	Add Cogod Writz-Mad diciVitit
	iit for the next page to appear.
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAN www.digisol.com	D ROUTER Back Next Exit

Once the connection is established, the router connection status will appear.

DIGISOL	
Status : WAN	
retrying the connection to Inte	4
Please reboot the Router	after click "Finish" (Recommended).
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAND ROUTE	Refresh Finish
www.digisol.com	Tech Support 1800 209 3444

## Bridging

 ${\ensuremath{\mathfrak{O}}}$  To configure the router in bridge mode select "Bridging" option. Click 'Next'.

DIGISOL	
Configure : ADSL Protocol	
Please select the type over Ethernet as WAN	of network protocol for IP interface
PPP over ATM (FFPoA)	
PPP over Ethernet (PPPoE)	
MAC Encapsulation Routing (MER)	
DIP over ATM (IPoA)	
Bridging	
Encapsulation Mode	
ULC/ENCAPSULATION	
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAND ROUTER	Back Next Exit
www.digisol.com	Tech Support 1800 209 3444

Configure a wireless name (SSID) for your router. Click 'Next'.

DIGISOL	
Configure : Wireless Nan	ne (SSID)
Configure a name (SSID) fo so you can always identify y	r your wireless network, your wireless network.
Wireless Name (SSID):	Digital [Example: MyNetwork, WIFI123]
Wireless Channel:	Auto Scan 💽
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAND ROUTER WWW. digisol.com	Back Next Ext Tech Support 1000 209 3444

Configure the wireless security.

Configure : Wireless Secu	
Wireless security helps to protect your ' malicious users. WPA Pre-Shared Key is users. Please enable the WPA Pre-Share (alphanumeric, case sensitive) key in th	the most secured encryption for general d key and enter a 8 to 63 characters
Security Mode:	WPA2-Mixed
Pre-Shared Key:	
DG-BG4100NU WIRELESS ADSL2/2+ BROADBAND ROUTER	Back Nent Exit
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Olick on 'Next' the following screen will appear.



Click on 'Finish' to finish the router configuration in Bridge mode.

## Congratulations! The Wireless Router Installation is now complete.

#### 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 192.168.1.X with the subnet mask 255.255.255.0 and gateway as 192.168.1.1. For example, assign the IP address 192.168.1.10.
- Open a web browser and enter "http://192.168.1.1" in the address bar, and press 'Enter'. A login screen will appear, assign username as "admin" and password as "admin" for a super user. Press 'OK' to Log in. The username and password of the common user are "user" and "user".

Authentication Reg	uired	23
The server 192, 168, 1. The server says: Index	1:80 regures a usemanie Intri.	and password.
User Name: 1		
Passwerd		
	L in h	-
	Logian	Cancel

 If you login as super user the following screen will appear. You can now configure the router through this web management page.

DIGISC	י גר	DG-BG4100NU		150Mbps Wireless ADSL2/2+ Broedband Router with USB Por		
Wizard	Setup Advanced	Service Firewall	Maintenance	Smart MENU		
	ADSL Router Status	t status and some basic sattings of the de	400			
Device Info	🗁 System					
<ul> <li>Device info</li> <li>3G info</li> </ul>	Model Name	DG-BG410018J				
+ A05L	Uptene	13 days, 6 45 29				
	Date Time	Bat Jan 14 2012 / 12 15 28				
Statistics	Firmware Version	2.0.0				
	Built Date	Jul 10 2010				
	Serial Number	00177C64D954				
	ن DSL					
	Operational Status	G992.5				
	Upstream Speed	509 ktpg				
	Downstream Speed	2453 Hbps				

If you log in as a common user, you can check the status of the router, but cannot configure most of the settings.

#### FAQ

Following are the solutions to problems that may occur during the installation and operation of the DIGISOL DG-BG4100NU Wireless Broadband Router.

- 1. Cannot login into the router.
  - Verify whether username and password you entered is correct.
  - If you have forgotten the password, then reset the router using reset button available on the rear side of the router.
  - Please keep reset button pressed till the router reboots to reset to factory default settings. Now, you can try login into the router using default username and password.
  - Ensure that you take backup of the router configuration so you can restore the router back after resetting it.
- 2. Router cannot get connected to Internet.
  - Access the router's web configuration 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.

- 3. Wireless client cannot locate the router.
  - Verify whether 'SSID Broadcast' 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 SSID broadcast is disabled.

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This Product is covered under DIGICARE Limited Lifetime Warranty program backed by DIGICARE Service Center. To avail this Limited Lifetime Warranty offer, customer needs to contact DIGICARE's Technical Assistance Center for the same. You may be asked to provide proof of purchase of product for warranty claim of defective product. Please refer website www.digisol.com for the detailed support terms & conditions and support process.

#### Warranty Policy

 Hardware Warranty : Hardware warranty period shall be limited up to Three years. External Power Adapter shall carry One year warranty only against manufacturing defects. Any repair or replacement will be rendered by DIGICARE at its Service Center only.

2. Software Warranty : DIGISOL issues this Limited Software Warranty that the software portion of the product ("Software") will substantially confirm to DIGISOL's then current functional specifications for the software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of one year ("Software Warranty period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation.

3. Governing Law: This warranty shall be governed by Indian Laws.

helpdesk@digisol.com

01800 209 3444

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 Limited Lifetime Warranty shall subject to the terms & conditions specified in the DIGISOL PRODUCT WARRANTY policy displayed on www.digisol.com

NOTES		



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