

DG-BR4015N 150Mbps Wireless 3G Broadband Router User Manual

V1.1 2011-11-30

As our products undergo continuous development the specifications are subject to change without prior notice



COPYRIGHT

Copyright © 2011 by this company. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without the prior written permission of this company

This company makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties, merchantability or fitness for any particular purpose. Any software described in this manual is sold or licensed "as is". Should the programs prove defective following their purchase, the buyer (and not this company, its distributor, or its dealer) assumes the entire cost of all necessary servicing, repair, and any incidental or consequential damages resulting from any defect in the software. Further, this company reserves the right to revise this publication and to make changes from time to time in the contents thereof without obligation to notify any person of such revision or changes.

Trademarks:

DIGISOLTM is a trademark of Smartlink Network Systems Ltd. All other trademarks are the property of the respective manufacturers.

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.





INDEX

1. PRODUCT INFORMATION	5
1-1 Introduction	
1-2 SAFETY INFORMATION	6
1-3 System Requirements	7
1-4 PACKAGE CONTENTS	7
1-5 GET FAMILIAR WITH YOUR NEW WIRELESS BROADBAND ROUTER	8
2. SYSTEM AND NETWORK SETUP	10
2-1 SOFTWARE INSTALLATION	10
2-2 Connecting to 3G router by web browser	
2-2-1 Windows 95/98 IP address setup	
2-2-2 Windows 2000 IP address setup	
2-2-3 Windows XP IP address setup	
2-2-4 Windows Vista IP address setup	
2-3 ACCESSING ROUTER'S WEB GUI	
2-4 USING ROUTER SETUP WIZARD	
2-5 INTERNET MODE SETUP (3G)	
2-5-1 3G mode	
2-5-2 Static (Fixed IP) mode	
2-5-3 DHCP Mode	
2-5-4 PPPoE Mode	
2-6 OPERATION MODE	
2-6-1 IP Address (UPnP)	
2-6-2 Statistics	
2-6-3 DHCP Client List	44
2-7 WIRELESS	
2-7-1 Basic Wireless Setting	
2-7-2 Advance	
2-7-3 Wireless Security	49
2-7-4 WPS (Wi-Fi Protected Setup)	57
2-6-5 WDS (Wireless Distribution System)	58
2-7-6 AP Clients List	59
2-7-7 Statistics	60
2-8 FIREWALL	61
2-8-1 QoS (Quality of Service)	62
2-8-2 TCP/IP Filter	62
2-8-3 URL Filter	64
2-8-4 System Security	66
2-9 Advance	67
2-9-1 DDNS Domain	67
2-9-2 Routing	68
2-9-3 DMZ	69
2-9-4 Port Forwarding	71

3

2-9-5 System Command	
2-10 MANAGEMENT	
2-10-1 System Management	74
2-10-2 Settings File (Factory)	
2-10-3 Upload Firmware	
2-11 STATUS	
2-11-1 Syslog	
2-11-2 Reboot	79

1. Product Information

1-1 Introduction

Thank you for purchasing DG-BR4015N 150Mbps Wireless 3G Broadband Router! DG-BR4015N is the best choice for Small office / Home office users, all computers and network devices can share a single 3G / Cable modem internet connection at high speed. Easy installation procedures allow computer users to setup a network environment in very short time - within minutes. 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.

All computers and IEEE 802.11b/g/n wireless-enabled network devices (including PDA, cellular phone, game console, and more) can connect to this wireless router without additional cabling. With a compatible wireless card installed in your PC, you can transfer files up to 150Mbps (transfer data rate).

Other features of this router include:

- Wireless speed up to 150Mbps.
- Allows multiple users to share a single Internet line.
- Share a single 3G, Cable or xDSL internet connection.
- Access private LAN servers from the internet.
- Four wired LAN ports (10/100M) and one WAN port (10/100M)
- USB port to connect 3G USB dongle.
- Failover between primary and secondary links.
- Works with IEEE 802.11b/g/n wireless LAN devices.
- Supports DHCP (Server/Client) for easy IP-address setup.
- Advanced network and security features like: Special Applications, QoS, DMZ, Virtual Servers, Firewall.
- Allows you to monitor the router's status like: DHCP Client Log, System 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.

1-2 Safety Information

In order to keep the safety of users and your properties, please follow the safety instructions as mentioned below:

- 1. This router is designed for indoor use only; DO NOT place this router outdoor.
- 2. DO NOT place this router close to a hot or humid area, like kitchen or bathroom. Also, do not leave this router in the car during summer.
- 3. DO NOT pull any connected cable with force; disconnect it from the router first.
- 4. If you want to place this Router at a height or mount on the wall, please make sure it is firmly secured. Falling from a height would damage the router and its accessories and warranty will be void.
- 5. Accessories of this router, like antenna and power supply, are dangerous to small children. KEEP THIS ROUTER OUT OF THE REACH OF CHILDREN.
- 6. The Router will get heated up when used for long time (This is normal and is not a malfunction). DO NOT put this Access Point on paper, cloth, or other flammable materials.
- 7. There's no user-serviceable part inside the router. If you find that the router is not working properly, please contact your dealer of purchase and ask for help. DO NOT disassemble the router, warranty will be void.
- 8. If the router falls into water when it's powered, DO NOT use your hands to pick it up. Switch the electrical power off before you do anything, or contact an experienced electrical technician for help.
- 9. If you smell something strange, or even see some smoke coming out from the router or power supply, remove the power supply or switch the electrical power off immediately, and call the dealer of purchase for help.

1-3 System Requirements

- Notebook or desktop computer with network adapter (wired/wireless)
- Internet connection, provided by USB (3G) 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)

1-4 Package Contents

Before you start using this router, please check if there's anything missing in the package, and contact your dealer of purchase to claim for missing items:

- DG-BR4015N 3G Wireless Broadband Router
- Switching power adapter (9V DC, 1A)
- Quick Installation Guide
- Installation Guide CD (includes User Manual, Utility)
- Patch chord (1 No.)

1-5 Get Familiar with your new wireless broadband router

Front Panel

Wireless	LAN4	LAN3	LAN2	LAN1	PWR	Modem	Internet	WPS
\cap	\bigcap	\bigcap	\cap	\bigcap	\bigcap	\cap	\bigcap	\cap
\cup	\cup	\cup	\cup	\cup	\cup	\cup	\cup	\cup

LED	LED				
Name	Color	Status	Description		
		ON	Wireless radio is ON.		
Wireless Green		Blinking	Data is being transmitted or received.		
		OFF	Wireless is not enabled.		
ON LAN link is UP.			LAN link is UP.		
LAN $(1 - 4)$	Green	Blinking	Data is being transmitted or received.		
(1~4)		OFF	LAN port not in use.		
PWR Red OF		OFF	Power is OFF.		
		ON	Power is ON.		
Modom	Groop	Blinking	3G Modem is initializing or initialization is failed.		
Modelli	Oreen	ON	3G connections are established.		
		ON	WAN link is UP		
Internet	Green	Blinking	Data is being transmitted or received.		
		OFF	WAN link is down		
WDC	Crean	Blinking	WPS negotiation is enabled, waiting for the clients		
WF5	Green	OFF	WPS negotiation is not enabled on the device.		



Back Panel



Interface	Description
Antenna	It is a 3dBi dipole antenna.
	Press this button and hold for 10 seconds to restore all settings to
WPS/Reset	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.
USB	USB port for 3G connection.



2. System and Network Setup

2-1 Software Installation

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



2. Explore the CD and execute the "Autorun.exe" file. Below given screen will appear. Click 'next' to continue with the installation.





3. Connect 3G USB dongle to the USB port on the Router. Click 'next' to continue with the installation.



4. 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 with the installation.





5. Connect your desktop/notebook to one of the LAN ports (1~4) of the router. Click 'next' to continue with the installation.

Home	Administrator	Quick Installation Guide	User Manual	Log	Reboot	Exit	digisol.com
	Weld	ome to [DG-BR401	5N Quic	k Setup V	Vizard	
	Conn static 255.2	ect your PC v IP to PC wit 255.255.0 and	with the LAN Po h IP as 192.168. I gateway as 19	rt on the ro 2.10, subne 2.168.2.1	uter and assign t mask as	ıa	
	USB						
					back	next	
	ISO				Service & sup toll free - 1800 20 helpdesk@digis	oport 09 34444 ol.com	DG-BR4015N

6. Enter the IP address of the router (default IP 192.168.2.1 will automatically appear). Click 'Login' to continue with the installation.

Home	Q Administrator Insta G	ulick allation User Manual Juide	Log	Reboot Exit	D digisol.com
	Welcom	e to DG-BR4015	N Quick S	etup Wizard	
	Login th	ne Router			
	IP Add	tress: 192.168.	2.1		
				Login	
	SISOL		Se toli fre help	ervice & support ee - 1800 209 34444 desk@digisol.com	DG-BR4015N
		12			

7. Default Username is admin and Password is admin. Click 'OK' to continue with the installation.

Home Administrator Ins	Quick tallation User Man Guide	ual Log	Reboot	Exit	digisol.com
Welcor Login ⊮ A	Connect to 192.168,2 The server 192.168.2.1 al and password. Warning: This server is ret password besent in an ins without a secure connection User name: Password: Password: Isonormaliant Password: Isonormaliant Password: Isonormaliant Isonormali Isonormaliant Isonormaliant Isonormaliant Isonormaliant	2.1 : DG-BR4015N requires a u questing that your usernan ecure manner (basic authe n). admin emember my password	p W	izard	
JIGISOĽ		OK C	Service & supp bil free - 1800 209 helpdesk@digisol	Login ort 34444 .com	DG-BR4015N

8. Below screen will display the Router Setup Wizard steps. Click 'next' to continue with the installation.





9. Select the type of Internet connection you wish to set. Click 'next' to continue with the installation.

Home	Administrator	Quick Installation Guide	User Manual	Log	Reboot	Exit	D digisol.com
	Wel	come to [DG-BR401	5N Quicl	k Setup Wi	zard	
	We	lcome to R	outer Setup	Wizard			
		Step 1: Wa	n interface Setu	P			
		🔘 DH	ICP				
) Sta	atic IP				
		PP	PoE				
		💿 US	B3G				
				refresh	back	next	
	JISO	Ľ		10	Service & supp toll free - 1800 209	ort 34444 D	G-BR4015N

i) If "**Wan Interface Setup**" is set to **DHCP** then the following screen will appear. Enter any Hostname, this field is optional. Click '**next**' to continue with the installation.

Quic Home Administrator Installa Guic	k tion User Manual e	Log	Reboot	Exit	aigisol.com	
Welcome	to DG-BR40	15N Quicł	k Setup W	/izard		
Welcome	to Router Setu	p Wizard				
Step	1: Wan Interface Se	etup->Dhcp Se	tup			
t	lost Name:					
		refresh	back	next		
			Service & sup	port		
IGISOL			toll free - 1800 20 helpdesk@diaisc	9 34444 D	G-BR4015N	
	1	4				
a 1	800-200-3	AAA (To	JI Eroo)			
neipaesk@aigisoi.com	👗 saies(angisa	DI.COM	🐨 W	ww.aigisc	n.com

ii) If "**Wan Interface Setup**" type is set to **Static IP** then following screen will appear. Enter the IP address, Subnet Mask, Default Gateway and DNS address provided by ISP in the screen shown below and click '**next**' to continue with the installation.

Home Administrator Installation User Manual Guide User Manual Welcome to DG-BR40 Welcome to Router Setu	Log Reboot 15N Quick Setup Wiz	Exit aigisol.com
Step 1: Wan interface S	etup->Static IP Setup	
IP Address:	192.168.8.1	
Subnet Mask:	255.255.255.0	
Default Gateway:	192.168.8.254	
Primary DNS:	8.8.8	
Secondary DNS:	4.4.4.4	
JIGISOĽ	refresh back Service & suppor toll free - 1800 209 3 helpdesk@digisol.cc	next t t t t t t t t t t t t t t t t t t

iii) If "**Wan Interface Setup**" type is set to **PPPoE** then following page will appear. Enter the PPPoE Username and Password as provided by ISP and click '**next**' to continue with the installation.

Home	Administrator	Quick nstallation User I Guide	Manual Log	Reboot	Exit	digisol.com
	Welco	me to DG-B	R4015N Qui	ck Setup W	izard	
	Welco	ome to Router	Setup Wizard			
		Step 1: Wan inter	ace Setup->PPPoE	Setup		
		User Name:	pppoe_use	r		
		Password:				
	SISOL	•	refresh	Back Service & supp toll free - 1800 209 helpdes/dialso	next 9 34444 D(G-BR4015I
			1.7			



10. Configure the 3G connection parameters as shown in the following screen. Click 'next' to continue with the installation.

Home	Quick Administrator Installation User M Guide	fanual Log Reboot Exit 🗾 _{digisol.com}
	Welcome to DG-B	R4015N Quick Setup Wizard
	Welcome to Router Step 1: Wan interface	Setup Wizard Setup->3G Mode Setup
	Country	Select
	ISP	•
	APN:	rcomnet
	Dial Number:	*99#
	User Name:	
	Password.	
	PIN:	
		refresh back next
	JISOĽ	Service & support toll free - 1800 209 34444 DG-BR4015N helpdesk@digisol.com

Parameter	Description
Country	Select the Country from drop-down list. If not listed select Manual.
ISP	Select ISP from drop-down list.
APN	Enter the APN (Access Point Name) provided by ISP
Dial Number	Enter the dial number provided by your ISP
Username	Enter Username if provided by your ISP. This field is optional
Password	Enter Password if provided by your ISP. This field is optional
PIN	Enter PIN if provided by your ISP. This field is optional

- 11. On the following screen the Default IP address (192.168.2.1) of router is displayed. If you wish to modify the LAN IP address of the router then enter a new valid IP here. Click 'next' to continue with the installation.
- Note: If your notebook/desktop computer is set to DHCP then please change it to static IP address in the same subnet as that of router IP.

Home	Administrator	Quick Installation Guide	User Manual	Log	Reboot	Exit	digisol.com
	We	come to DC	G-BR401	5N Quic	k Setup W	lizard	
	W	elcome to Rou	uter Setup	Wizard			
		Step 2: Lan Ir	nterface Setu	IP .			
		IP Addres		192.168.2.1			
		Subnet M	ask:	255.255.255	.0		
				refresh	back	next	
	JISO	L			Service & sup toll free - 1800 20 helpdesk@digisc	port 9 34444 bl.com	DG-BR4015N

12. In the following screen, assign a SSID to your wireless network. Default SSID is DG-BR4015N. Secure your wireless network by selecting an encryption as WPA/WPA2. Enter 8~63 characters as encryption key. Click 'finish' to complete the installation.

Qu Home Administrator Insta Gu	uick Ilation User Manual Iide	Log	Reboot Ex	it Digisol.com
Welcome Welcom	e to DG-BR40 e to Router Setu	15N Quick S p Wizard	Setup Wizard	
Ste	p 3: Wireless Setup SSID Encrypt	DG-BR4015N WPA/WPA2	-	
	WPA Algorithms key:	TKIP A	AES TKIPAES	
JIGISOL		refresh s toll f hel	back fil Service & support ree - 1800 209 34444 pdesk@digisol.com	DG-BR4015N

13. In this screen you can see log information. Router will update the settings. This indicates that the settings are saved to the router.





14. Click "Reboot" button to reboot the router.



Please wait for 60 seconds till the router reboots.

Quici Home Administrator Installat Guide Welcome	to DG-BR4015N Qu	Reboot Exit	digisel.com
Restart Rou Are you sure r	Exposition The system is restarting now Please waiting for 60 seconds		
JIGISOĽ		Service & support toll free - 1800 209 34444 helpdesk@digisol.com	DG-BR4015N

Congratulations! Your router configuration is now finished.

2-2 Connecting to 3G router by web browser

After the network connection is setup, next step is to setup the router with proper network parameters, so it can work properly in your network environment.

Please use the web browser to configure the router. A computer with wired Ethernet connection to the router is required for this first-time configuration.

Before you start to configure the router (default IP 192.168.2.1), please configure the IP address of the computer in the same network Class as that of the router.

2-2-1 Windows 95/98 IP address setup

1. Click 'Start' button (it should be located at lower-left corner of your computer), then click control panel. Double-click 'Network' icon, and Network window will appear. Select 'TCP/IP', then click 'Properties'.

Network ? 🗙
Configuration Identification Access Control
The following <u>n</u> etwork components are installed:
Client for Microsoft Networks
📇 Client for NetWare Networks
SMC EtherPower Adapter (SMC8432)
FIPX/SPX-compatible Protocol
ТСРИР
Add <u>R</u> emove <u>P</u> roperties
Primary Network Logon:
Client for Microsoft Networks
<u>F</u> ile and Print Sharing
Description TCP/IP is the protocol you use to connect to the Internet and wide-area networks.
OK Cancel



2. Select 'Specify an IP address', then input the following settings in respective field:

IP address: 192.168.2.2 Subnet Mask: 255.255.255.0 Gateway: 192.168.2.1

Click 'OK' when finish.

TCP/IP Prope	aties ? 🗙
Bindings Gateway	Advanced DNS Configuration WINS Configuration IP Address
An IP addre by a DHCP server, ask type it in the	ess can be automatically assigned to this computer server. If your network does not have a DHCP your network administrator for an address, and then a space below.
O <u>O</u> btair	an IP address from a DHCP server
© <u>S</u> peci	y an IP address:
IP Ad	ldress: 192.168 . 2 . 2
S <u>u</u> br	et Mask: 255 . 255 . 255 . 0
i	OK Cancel

2-2-2 Windows 2000 IP address setup

 Click 'Start' button (it should be located at lower-left corner of your computer), then click control panel. Double-click 'Network and Dial-up Connections' icon, Right click on 'Local Area Connection' and select 'Properties', Local Area Connection Properties window will appear. Select 'Internet Protocol (TCP/IP)', then click 'Properties'

Local Area Connection Properties
General
Connect using:
Realtek RTL8029(AS) PCI Ethernet Adapter
Configure
Components checked are used by this connection:
File and Printer Sharing for Microsoft Networks Internet Protocol (TCP/IP)
Install <u>U</u> ninstall <u>Properties</u>
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Sho <u>w</u> icon in taskbar when connected
OK Cancel

JIGISOL[®]

2. Select 'Use the following IP address', then input the following settings in respective field:

IP address: 192.168.2.2 Subnet Mask: 255.255.255.0 Default gateway: 192.168.2.1

Click 'OK' when finish.

You can get IP settings assigned this capability. Otherwise, you ne the appropriate IP settings.	d automatically if your network supports ed to ask your network administrator for
C Obtain an IP address auto	matically
Use the following IP addre	\$\$:
IP address:	192.168.2.2
Sybnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.2.1
C Obtain DNS server addres	s automatically
Use the following DNS ser	ver addresses:
Preferred DNS server:	
Alternate DNS server:	<u> </u>
	in the second

2-2-3 Windows XP IP address setup

 Click 'Start' button (it should be located at lower-left corner of your computer), then click control panel. Click 'Network Connections', Right click on 'Local Area Connection' and select Properties, Local Area Connection Properties window will appear. Select 'Internet Protocol (TCP/IP)', and then click 'Properties'.

🗕 Local Area Connection Properties 🛛 🔹 💽
General Advanced
Connect using:
Marvell Yukon 88E8001/8003/8010 Configure
This connection uses the following items:
T Link-Layer Topology Discovery Responder
ALGIS Protocol (IEEE 802.1x) v3.7.5.0 Trinternet Protocol (ICP/IP)
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
 Show icon in notification area when connected Notify me when this connection has limited or no connectivity
OK Cancel



2. Select 'Use the following IP address', then input the following settings in respective field:

IP address: 192.168.2.2 Subnet Mask: 255.255.255.0 Default gateway: 192.168.2.1

Click 'OK' when finish.

eneral	
You can get IP settings assigne his capability. Otherwise, you n he appropriate IP settings.	d automatically if your network supports eed to ask your network administrator fo
O Obtain an IP address auto	matically
O Uge the following IP address	\$\$. >
IP address:	192.168.2.2
Sybnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.2.1
Obtain ONC server address	a ar fean after alle
Use the following DNS ser	ver addresses:
Preferred DNS server:	10 N N
Alternate DNS server:	
	Advanced
	- Matanood

2-2-4 Windows Vista IP address setup

 Click 'Start' button (it should be located at lower-left corner of your computer), then click control panel. Click on 'View Network Status and Tasks' and then click on 'Manage Network Connections'. Right-click 'Local Area Connection', then select 'Properties'. Local Area Connection Properties window will appear, select 'Internet Protocol Version 4 (TCP / IPv4), and then click 'Properties'

Intel(R) PRO/1	000 MT Network Conr	ection
		Configure
This connection uses	the following items:	
the second se		
File and Prin An Internet Prot An Internet Prot Internet Prot	ter Sharing for Microso ocol Version 6 (TCP/II ocol Version 4 (TCP/II	ft Networks 2v6) 2v4)
A Internet Prot	ter Sharing for Microso ocol Version 6 (TCP/II ocol Version 4 (TCP/II opology Discovery Ma opology Discovery Re	ft Networks 2v5) pper IAN Driver sponder
☑ Internet Prot ☑ ▲ Install	ter Sharing for Microso ocol Version & (TCP/II opology Discovery Ma opology Discovery Re Uninstall	ft Networks ² v6) pper IA Driver sponder Properties
 ☑ ➡ File and Print ☑ ➡ Internet Prof ☑ ➡ Internet Prof ☑ ➡ Unk-Layer T ☑ ➡ Link-Layer T Install 	ter Sharing for Microso ocol Version 8 (TCP/II opology Discovery Ma opology Discovery Re	ft Networks Pv6) pper I/P Driver sponder Properties

2. Select 'Use the following IP address', then input the following settings in respective field:

IP address: 192.168.2.2 Subnet Mask: 255.255.255.0 Default gateway: 192.168.2.1

Click 'OK' when finish.

You can get IP settings assigned this capability. Otherwise, you n for the appropriate IP settings.	automatically if your network supports eed to ask your network administrator
🔘 Obtain an IP address auton	natically
 Ouse the following IP address 	s:
IP address:	192.168.2.2
Subnet mask:	255.255.255.0
Default gateway:	192.168.2.1
Obtain DNS server address	a na analasika
Use the following DNS server	er addresses:
Preferred DNS server	
Freidreu Dito Server.	Grab selecte Region
Alternate DNS server:	
	Advanced

2-3 Accessing router's web GUI

After you assign an IP address to the computer, open the web browser (Internet Explorer 5.x or above, Firefox, or Netscape) and type the IP address of router in the address bar as 'http://192.168.2.1' and hit 'Enter' to establish connection.

You should see the following authentication window:

Connect to 192.1	68.2.1
	G
The server 192.168.2 and password. Warning: This server password be sent in a without a secure con	2.1 at DG-BR4015N requires a username is requesting that your username and an insecure manner (basic authentication nection).
<u>U</u> ser name:	2
Password:	
	Remember my password
	OK Cancel

Please input user name and password in the field respectively, default user name is 'admin', and default password is 'admin', then press 'OK' button to enter into web management interface of this router:

Following is the Web GUI interface of the router.



TIP: This page shows the eight major setting categories: Wizard, Internet Mode (3G), Network, Wireless, Firewall, Advance, Management, Status. You can jump to another category directly by clicking the link.

NOTE: If you can't see the web management interface, and you're being prompted to input user name and password again, it means you didn't input username and password correctly. Please retype user name and password again. If you're certain about the user name and password you typed please go to Troubleshooting section to perform a factory reset to set the password back to default value.

2-4 Using Router Setup Wizard

This router provides a 'Quick Setup Wizard' procedure, which will help you to complete all required settings you need to access the Internet quickly. Please follow the instructions mentioned below to complete the 'Quick Setup':

DG-BR4015N 150Mbps Wirele	ess Broadband 3G Router - Windows Interne home.asp Vireless Broadband 3G Router	t Explorer ▼ → X Ure Search ☆ • S - ♣ • D Pope • ©
	SOL	DG-BR4015N
		LOUMDPS WIREless Broadband 3G Rout
WIZATU		Lan.192.100.2.1 PH 2011-11-23 134
▼ Network	Let's take a look at the status of DG-BR	4015N Platform.
▼ Wireless	System Info	
- 71 11	Firmware Version	3050(X71N)-32M4M-1T1R-V1.2-DIGISOL(20111117) (Nov 17 2011)
▼ Firewall	System Description	2 hours, 54 mins, 24 secs
▼ Advance	Operation Mode	Cateway Mode
▼ Management	Internet Configurations	Obleway mode
	Connected Type	3G Sig:N/A Please Insert USB Dongle.
▼ Status	WAN IP Address	
	Subnet Mask	
	Default Gateway	
	Primary Domain Name Server	
	Secondary Domain Name Server	
	MAC Address	00:0C:43:30:50:66
	Local Network	
	Local IP Address	192.168.2.1

Please go to Quick Setup menu by clicking **'Wizard'** button. And the following window will be displayed:



Here, you can configure the router using wizard in 2 simple steps.

Step 1 : Configure Internet Connection Step 2 : Configure Wireless Settings

Click 'Next' to continue with the Router Setup Wizard and the following window will appear to configure Internet connection.



Step1: Please choose the **Internet connection type** you're using in this page. There are 4 types of Internet connection, they are:

A. DHCP B. Static Mode C. PPPoE (xDSL) D. 3G

If you're not sure, please contact your Internet service provider. A wrong Internet connection type will cause connection problem, and you will not be able to connect to internet.

If you want to go back to previous step, please press 'Back' button at the bottom of this page. Press 'Cancel' to restart the Wizard.

31



A. Setup procedure for DHCP

Click on 'DHCP' in Internet connection as shown in the below screen.

Step 1: Configure Internet connection
DHCP
Choose this, ISP automatically configure this device.
∋ Static Mode
Choose this, user need to configure this device manually.
) PPPoE(xDsl)
Choose this, user must input a username and password for ISP authenticator.
) 3G Mode
3G Modem with USB interface to connect to wireless broadband
Back Next Cancel Apply

Click 'Next' to continue with the router setup wizard.

B. Setup procedure for Static mode

Click on 'Static Mode' in Internet connection and below screen will appear.

Static Mode	
IP Address	
Subnet Mask	
Default Gateway	
Primary DNS Server	
Secondary DNS Server	

Here are descriptions of every setup item:

Parameter	Description	
IP address	Please input IP address assigned by your service provider.	
Subnet Mask	Please input subnet mask assigned by your service provider	
Default Gateway	Please input the default gateway assigned by your service provider.	
Primary DNS Server	Please input the IP address of primary DNS server provided by your service provider.	
Secondary DNS Server	Please input the IP address of secondary DNS server provided by your service provider.	

NOTE: You must use the addresses provided by your Internet service provider, wrong setting value will cause connection problem.

NOTE: You can choose this Internet connection method if your service provider assigns a fixed IP address (also know as static address) to you, and not using DHCP or PPPoE protocol. Please contact your service provider for further information.

When you finish with all settings, press '**Next**'; if you want to go back to previous menu, click '**Back**'.

C. Setup procedure for PPPoE mode

PPPoE Mode	
User Name	
Password	
Verify Password	
Operation Mode	Keep Alive Keep Alive Mode: Redial Period 60 senconds On demand Mode: Idle Time 5 minutes

Click on 'PPPoE xDSL' in Internet connection and below given screen will be displayed.

Here are descriptions of every setup item:

Parameter	Description
Username	Enter the username provided by ISP
Password	Enter the password provided by ISP
Verify Password	Re-enter password to verify

There are 3 types of Operation Modes:

- Keep Alive Internet connection is always alive.
- On Demand Only connects to Internet when there's a connect attempt.
- Manual Only connects to Internet when 'Connect' button is pressed, and disconnects when 'Disconnect' button is pressed.

Idle Time Out: Specify the time to shutdown internet connection after no internet activity is detected by specified minutes. This option is only available when connection type is 'Connect on Demand'.

D. Setup Procedure for 3G

Please select your STATE, local ISP, and then input the local ISP's APN, PIN, Dial Number; username, password; click 'Next' to continue.

Wide Area Networ	k (WAN) Settings
You may choose different con according to the selected conr	nection type suitable for your environment. Besides, you may also configure parameters nection type.
WAN Connection Type:	3G 💌
3G Mode	
STATE:	Manual
ISP:	
APN	UNINET
PIN	
Dial Number	*99#
Username	
Password	
USB 3G modem	AutoDetect 🗸
MAC Clone	
Enabled	Disable 🗸
Back	Next Cancel Apply



Step2: Configure Wireless Settings.

JIGIS	SOL		DG-BR4	015N
			150Mbps Wireless Bro	oadband 3G Router
Wizard			Lan:192.16	8.2.1 Tue 2011-11-29 13:11:00
Internet Mode(3G)	Router Setup Wizard			
▼ Network	Welcome to Router Setup Wizard.			
▼ Wireless	You can use this Setup Wizard to quid	ckly configure your new Wirele:	ss N 3G router	
▼ Firewall				
Qos BwLimit	Step 2: Configure Wireless	Settings		
TCP/IP Filter	Wireless Settings			
Url Filter	Network Name (SSID)	DG-BR4015N		
System Security	Security	Disable		
▼ Advance	Back	xt Cancel	Apply	
▼ Management				
▼ Status				

Here is the description of every setup item.

Parameter	Description
Network Name (SSID)	Allows you to change the SSID. Default SSID is DG-BR4015N.
Security	Please secure the wireless network using WEP or WPA/WPA2 security. Default is Disable.

When you finish with all settings, press '**Apply**'; if you want to go back to previous menu, click '**Back**'.

You will get message "Settings successful" after applying the settings.

2-5 Internet Mode Setup (3G).

Configure Internet mode setup manually.

2-5-1 3G mode

If your ISP Internet mode is 3G, then configure the following parameters.

You may choose different co according to the selected cor	nnection type suitable for your environment. Besides, you may also con nnection type.	figure parameters
WAN Connection Type:	3G 💌	
3G Mode		
STATE:	Manual	
ISP:		
APN	UNINET	
PIN		
Dial Number	*99#	
Username		
Password		
USB 3G modem	AutoDetect 💉	
MAC Clone		
Enabled	Disable 🗸	

Parameter	Description
State	Enter state from pull-down menu. If not listed select Manual.
APN	Enter the APN (Access Point Name) provided by ISP.
Dial Number	Enter the dial number provided by your ISP.
Username	Enter Username if provided by your ISP. This field is optional.
Password	Enter Password if provided by your ISP. This field is optional.
PIN	Enter PIN if provided by your ISP. This field is optional.

Click Apply to continue with the installation.
IGISOL

2-5-2 Static (Fixed IP) mode

If your connection mode is static IP, then configure the following parameters.

You may choose different conn- according to the selected conne	ection type suitable for your environment. Besides, you may also configure parameters ection type.
WAN Connection Type:	STATIC (fixed IP)
Static Mode	
IP Address	
Subnet Mask	
Default Gateway	
Primary DNS Server	
Secondary DNS Server	
MAC Clone	

Parameter	Description	
IP address	Please input IP address assigned by your service provider.	
Subnet Mask	Please input subnet mask assigned by your service provider	
Default Gateway	Please input the default gateway assigned by your service provider.	
Primary DNS Server	r Please input the IP address of primary DNS server provided by your service provider.	
Secondary DNS Server	Please input the IP address of secondary DNS server provided by your service provider.	
MAC Address	Some ISPs require end-user's MAC address to access their network. Click "Fill my MAC", register your PC's MAC address. You can also manually input the MAC address.	

Click Apply to continue with the installation.



JIGISOL

2-5-3 DHCP Mode

This router to automatically obtain IP address from your ISP, in DHCP mode. If your ISP does not provide any IP network parameters, select the connection and Input Hostname.

You may choose different con according to the selected con	nection type suitable nection type:	for your environment. Besides, you may also	configure parameters
WAN Connection Type:		DHCP (Auto config)	
Hostname (optional)			
MAC Clone			
Franklad	Disable		

Click Apply to continue with the installation.

2-5-4 PPPoE Mode

If your ISP provides PPPoE connection, select the PPPoE option. And enter the following parameters.

according to the selected co	nnection type.	
WAN Connection Type:	PPPoE (ADSL)	
PPPoE Mode		
User Name	pppoe_user	
Password		
Verify Password		
Operation Mode	Mode: Keep Alive 💌 Fail-Over: Disable 🛩	
	Keep Alive: Redial 60 seconds On demand: Idle Time 5 minutes	
MAC Clone		
11.11	Disable 🗸	

38

ĴIGISOĽ

Parameter	Description	
Username	Enter the username provided by ISP	
Password	Enter the password provided by ISP	
Verify Password	Re-enter password to verify	
Operation Mode	 Connect Keep Alive: Connect automatically to the Internet after rebooting the system or connection failure. Connect on Demand: In this mode, the Internet connection can be terminated. Connect Manual: Connect to the Internet by users manually. 	

Click "Apply" to continue with the installation.

2-6 Operation Mode

Please click 'Network menu on the left of web management interface, and the following screen will be displayed on your web browser.

Here you can configure the operation mode which is suitable for your environment. The default setting is Gateway. Router supports 2 operation modes.

Bridge: All Ethernet and wireless interfaces are bridged into a single bridge interface. When Bridge mode is applied, NAT gets disabled.

	DG-BR4015N 150Mbps Wireless Broadband 3G Router	
Wizard	Lan:192.168.2.1 Mon 2011-11-28 13:09:53	
Internet Møde(3G)	Operation Mode Configuration You may configure the operation mode suitable for your environment.	
▼ Network		
▼ Wireless		
▼ Firewall	Bridge: All ethernet and wireless interfaces are bridged into a single bridge interface.	
▼ Advance	Gateway: The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together	
▼ Management	and are treated as LAN ports.	
▼ Status		
	39	
¥ helpdesk@c	🖀 1800-209-3444 (Toll Free) ligisol.com 🛛 🕱 sales@digisol.com 🏾 🍞 www.digisol.com	

JIGISOL

■ **Gateway**: The first Ethernet port is treated as WAN port. The other Ethernet ports and the wireless interface are bridged together and are treated as LAN ports.

🖉 DG-BR4015N 150Mbps Wireless I	Broadband 3G Router - Windows Internet Explorer	
🔆 🖉 🗸 🖉 http://192.168.2.1/hom	e.asp	Live Search
🙀 🏘 🌈 DG-BR4015N 150Mbps Wirel	ess Broadband 3G Router	🏠 👻 🔝 🔹 🖶 Page 👻 🏠 Tools 🔹
IGIS	SOL	DG-BR4015N
		150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Mon 2011-11-28 13:11:11
Internet Mode(3G)	Operation Mode Configuration You may configure the operation mode suitable for your environment.	
▼ Network		
▼ Wireless		
▼ Firewall	O Bridge: All ethernet and wireless interfaces are bridged into a single bridge interface. Gateway: The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together	a single bridge interface.
▼ Advance		ther ethernet ports and the wireless interface are bridged together
▼ Management	and are treated as LAN ports.	
▼ Status	NAT Enabled Enable	
	TCP Timeout 180	
	UDP Timeout: 180	
	Apply	Cancel

Parameter	Description	
NAT	NAT can be enabled or disabled as suitable for user environment.	
TCP Timeout	The TCP timeout controls how long transmitted data may remain unacknowledged before a connection is forcefully closed. Increasing the user timeouts allows established TCP connections to survive extended periods of disconnection.	
UDP Timeout	The UDP timeout controls how long UDP data may remain unacknowledged before a connection is forcefully closed. Increasing the user timeouts allows established UDP connections to survive extended periods of disconnection.	

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures.

2-6-1 IP Address (UPnP)

In this section you can configure LAN parameters.

Please click '**IP** Address (**UPnP**)' menu on the left of web management interface, under the '**Network**' tab and the following screen will be displayed on your web browser.

🖉 DG-BR4015N 150Mbps Wireles	ss Broadband 3G Router - Windows Inte	rnet Explorer 🔄 🖬		
() - E http://192.168.2.1/h	ome.asp	V Ky X Live Search		
🔆 🕸 🌈 DG-BR4015N 150Mbps W	ireless Broadband 3G Router	🏠 🔹 🗟 🔹 🖶 Page 🗸 🎯 Tool:		
JICH		DG-BR4015N		
	JUL			
		150Mbps Wireless Broadband 3G Router		
Wizard		Lan:192.168.2.1 Mon 2011-11-28 13:40:25		
Internet Mode(3G)	Local Area Network	LAN) Settings		
▼ Network	You may enable/disable networkin	You may enable/disable networking functions and configure their parameters as your wish.		
IP Address(Upnp)				
Statistic	LAN Cotion			
DHCP Clients	IP Address	192 168 2 1		
▼ Wireless	Subnet Mask	255 255 255 0		
- 1111	Default Gateway			
• FIEWAIL	Brimani DNR Resport			
▼ Advance	Primary DNS Server	0.0.0		
▼ Management	Secondary DNS Server			
▼ Status	DHCP Type	00:00:43:30:50:20		
	Oted ID Address			
	Start IP Address	192.168.2.100		
	End IP Address	192.168.2.200		
	Subnet Mask	255.255.255.0		

Here are descriptions of every setup item:

Parameter	Description	
IP address	Please input the IP address of this router.	
Subnet Mask	Please input subnet mask for this network.	
Default Gateway	Please input default gateway for this network.	
Primary DNS	Please input the primary DNS address for this network.	
Secondary DNS	Please input the secondary DNS address for this network.	
MAC Address	Shows the Router LAN MAC address.	

JIGISOL

DHCP Type	Assign IP address dynamically to the DHCP clients. Default is Enabled.	
Start IP Address	Please input the Start IP address for this network.	
End IP Address	Please input the End IP address for this network.	
Subnet Mask	Please input subnet mask for this network.	
Primary DNS	Please input the primary DNS address for this network.	
Secondary DNS	Please input the secondary DNS address for this network.	
Default Gateway	Please input default gateway for this network.	
Lease Time	Enter the lease time for DHCP clients.	
Spanning Tree	Enable 802.1d to start spanning tree function. Default is Disabled.	
LLTD	LLTD is used by to display a graphical representation of the local area network (LAN) or wireless LAN (WLAN), to which the computer is connected. Default is Disabled.	
UPnP	UPnP enabled clients are discovered dynamically. Default is Disabled	
DNS Proxy	Enable the DNS Proxy that will relay users'/clients' DNS requests to a real DNS server IP address. Users no need to specify real DNS server IP address. Default is Enabled.	

Recommended Value if you don't know what to fill:

IP Address: 192.168.2.1 Subnet Mask: 255.255.255.0 802.1d Spanning Tree: Disabled DHCP Server: Enabled

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures.

2-6-2 Statistics

Here you can view the statistics of 3G router such as memory statistics, WAN/LAN Tx and Rx and all interface statistics.

Please click 'Statistic' menu on the left of web management interface, under the 'Network' tab and the following screen will be displayed on your web browser.

DG-BR4015N 150Mbps Wireless I	Broadband 3G Router - Windows Internet Explorer	
🕘 🕤 👻 🔊 http://192.168.2.1/hom	ie.asp	🖌 🤧 🗙 Live Search
Contraction of the second seco	ess Broadband 3G Router	🟠 🔹 🗟 🔹 🖶 🔹 🖓 Page 🗕 🎯 Tools
aleis		DG-BR4015N
		150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Mon 2011-11-28 14:43:19
Internet Mode(3G)	Statistic	*
▼ Network	Take a Look at The DG-BR4015N Statistics	
IP Address(Upnp)	Memory	
Statistic	Memory total:	29044 kB
DITOD OF 1	Memory left:	10984 kB
DHCP Clients	WAN/LAN	
▼ Wireless	WAN Rx packets:	1019
Sector Staty	WAN Rx bytes:	92614
Firewall	WAN Tx packets:	3859
▼ Advance	WAN Tx bytes:	2292405
	LAN Rx packets:	1019
▼ Management	LAN Rx bytes:	92614
▼ Status	LAN Tx packets:	3859
	LAN Tx bytes:	2292405
	All interfaces	
	Name	imq1
	Rx Packet	0
	Rx Byte	0
150Mbps Wireless 3G Router	Tx Packet	0
Convright @2011		



JIGISOL

2-6-3 DHCP Client List

Here you can view the DHCP clients connected to the router.

Please click '**DHCP Clients**' menu on the left of web management interface, under the '**Network**' tab and the following screen will be displayed on your web browser.

Dici	SOĽ		1501	DG-BF	R 401 ! Broadba	5N nd 3G Router
Wizard				Lan:19	92.168.2.1 M	(on 2011-11-28 14:51:
Internet Mode(3G)	DHCP Client	List				
▼ Network	You could monitor D	HCP clients here.				
IP Address(Upnp)						
Statistic	DHCP Clients					
	Hostname	MAC Address	IP Address	Expires in		
DHCP Clients	smartlin-ae03c2	00:1F:1F:52:BA:B0	192.168.2.101	23:59:54		
▼ Wireless						

2-7 WIRELESS

The wireless settings can be quickly configured as a wireless access point for roaming client by setting the access identifier (Network name) and channel number. It also supports data encryption and client filtering. The Wireless Settings contains the following sections:

- Basic
- Advanced
- Wireless Security
- WPS
- WDS
- AP Clients List
- Statistics

2-7-1 Basic Wireless Setting

This function allows you to define SSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point. Click '**Basic**' under Wireless, below screen will prompt for Basic Setting.

JIGI	SOĽ	DG-BR4015N 150Mbps Wireless Broadband 3G Router		
Wizard		Lan:192.168.2.1 Wed 2011-11-30 09:30:48		
Internet Mode(3G)	Basic Wireless Set	ttings		
▼ Network	Verse de la constitución de la const			
▼ Wireless	Channel. The Access Point car	You could configure the minimum number of Wireless settings for communication, such as Network Name (SSID) and Channel. The Access Point can be set simply with only the minimum setting items.		
Basic				
Advance	Wireless Network			
Wireless Security	Radio On/Off	RADIO OFF		
WPS	WiFi On/Off	WiFi OFF		
WDS	Network Mode	11b/g/n mixed mode 💌		
AP Clients List	Network Name(SSID)	DG-BR4015N Hidden Isolated		
Statistics	Multiple SSID1	Hidden Isolated		
▼ Firewall	Multiple SSID2	Hidden Isolated		
▼ Advance	Multiple SSID3	Hidden Isolated		

Here are the descriptions of every setup item:

Parameter	Description
RADIO ON / OFF	RADIO indicates the wireless operating status. The wireless
	can be turned ON or OFF. When the radio is ON, the
	following parameters are in effect.
WIFI ON / OFF	Similar to RADIO ON / OFF. Wireless can be turned ON or
	OFF.
Network Mode	If all of the wireless devices you want to connect with this
	router can connect in the same transmission mode, you can
	improve performance slightly by choosing the appropriate
	wireless mode. If you have some devices that use a different
	transmission mode, choose the appropriate wireless mode.
	There are many different configuration options available to
	choose from. Use the drop down list to select the wireless
	mode.



Network Name (SSID)	When you are browsing for available wireless networks, this is the name that will appear in the list (unless Visibility Status is set to Hidden, see below). This name is also referred to as the SSID.
Multiple SSID (1~7)	To add additional wireless Network Names simply add the name to the Multiple SSID field and click on apply at the bottom of the page.
Broadcast Network	
Name (SSID)	SSID broadcast can be disabled.
AP Isolation	If enabled, will isolate communication between the clients connected to router wirelessly.
MBSSID Isolation	If enabled, will isolate communication between the clients from different SSID.
BSSID	MAC Address of AP
Frequency (Channel)	Radio Channel that wireless AP/Router uses to communicate with wireless clients.
	HT Physical Mode description
Operating Mode	 Mixed mode: Provides backward compatibility with IEEE 802.11n/g/b devices. Green Field: Used for pure network of 802.11n access point and clients, taking full advantage of high- throughput capabilities of MIMO architecture
Channel Bandwidth	20 MHz: Allows only single channel operation (20MHz). 20/40 MHz: Allows both single channel operations.
Guard Interval	The guard interval is the period in nanoseconds that the Gateway listens between packets.
MCS(Modulation	The Modulation and Coding Scheme(MCS) is a value that
Coding Scheme):	determines the modulation, coding and number of spatial channels. (Options: value [range] = $0 \sim 7$ (1 Tx Stream), $8 \sim 15$ (2 Tx Stream), 32 and auto (33). Default is auto.
Reverse Direction Grant	When enabled Reverse Direction Grant, the wireless AP/Router can reduce the transmitted data packet collision by using the reverse direction protocol. The RDG improves transmission performance and scalability in a wireless.
Aggregation MSDU	This option enables MAC Service Data Unit (MSDU) aggregation. Default is disable.
Auto Block ACK	Select to block ACK (Acknowledge Number) or not during data transferring.
Decline BA Request	Select to reject peer BA-Request or not



Other		
HT TxStream	HT means High Throughput. The number of HT TxStream means how many antennas will transmit data simultaneously.	
HT RxStream	The number of HT RxStream means how many antennas will receive data simultaneously.	

When you finish with all settings, please click 'Apply' button to continue with other setup procedures.

2-7-2 Advance

You can configure wireless using advance feature to fine tune the wireless network.

Please click 'Advance' menu on the left of web management interface, under the 'Wireless' tab and the following screen will be displayed on your web browser.

D IGI	SOL	DG-BR4015N 150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Wed 2011-11-30 09:36:55
Internet Mode(3G)	Advanced Wireless	Settings
▼ Network	Use the Advanced Setup page to	make detailed settings for the Wireless. Advanced Setup includes items that are not
▼ Wireless	available ironi the basic setup p	age, such as beacon interval, control 1x reates and basic Data reates.
Basic		
Advance	Advanced Wireless	
Wireless Security	BG Protection Mode	Auto 💌
WPS	Beacon Interval	100 ms (range 20 - 999, default 100)
1170	Data Beacon Rate (DTIM)	1 ms (range 1 - 255, default 1)
wDs	Fragment Threshold	2346 (range 256 - 2346, default 2346)
AP Clients List	RTS Threshold	2347 (range 1 - 2347, default 2347)
Statistics	TX Power	100 (range 1 - 100, default 100)
▼ Firewall	Short Preamble	
▼ Advance	Short Slot	⊙ Enable ◯ Disable
▼ Management	Tx Burst	⊙ Enable ○ Disable
▼ Status	Dit Aggregate	

47

Here are the descriptions of every setup item.



IGISOL

Parameter	Description
BG Protection	This mode is a protection mechanism that prevents collisions among 802.11b/g
Mode	modes. Below are the choices.
Auto	BG protection mode goes ON or OFF automatically as needed.
	 ON: BG protection mode is always ON.
	• OFF: BG protection mode is always OFF.
	Beacons are packets sent by a wireless router to synchronize wireless devices.
Beacons	Specify a Beacon Period value between 20 and 1000. The default value is set to
	100 milliseconds
DTIM	A DTIM is a countdown informing clients of the next window for listening to
	broadcast and multicast messages. When the wireless router has buffered
	broadcast or multicast messages for associated clients, it sends the next DTIM
	with a DTIM Interval value. Wireless clients detect the beacons and awaken to
	receive the broadcast and multicast messages. The default value is 1. Valid
	settings are between 1 and 255.
Fragment	Wireless frames can be divided into smaller units (fragments) to improve
Threshold	performance in the presence of RF interference and at the limits of RF coverage.
	Fragmentation will occur when frame size in bytes is greater than the
	Fragmentation Threshold. This setting should remain at its default value of 2346
	bytes. Setting the Fragmentation value too low may result in poor performance.
RTS Threshold	When an excessive number of wireless packet collisions are occurring, wireless
	performance can be improved by using the RTS/CTS (Request to Send/Clear to
	Send) handshake protocol. The wireless transmitter will begin to send RTS
	frames (and wait for CTS) when data frame size in bytes is greater than the RTS
	Threshold. This setting should remain at its default value of 2346 bytes.
	Adjusts the power of radio signals transmitted from the AP. The higher the
Ty Power	transmission power, the farther the transmission range. You also have to ensure
IXIOWCI	that high-power signals do not interfere with the operation of other radio devices
	in the service area.
	Enables the length of the signal preamble that is used at the start of a
Short Preamble	transmission.
Short Slot	Sets the basic unit of time the wireless AP/Router uses for calculating waiting
	times before data is transmitted. Enabling a short time slot can increase data
	throughput on the wireless AP/Router, but requires that all clients can support a
	short time slot.
Tx Burst	Allows the wireless Router to deliver better throughput in the same period and
	environment in order to increase speed.
	Increase efficiency by aggregating multiple packets of application data into a
	single transmission frame. In this way, 802.11n networks can send multiple data
Pkt_Aggregate	packets with the fixed overhead cost of just a single frame.
WMM	Here you can configure WMM parameters.

When you finish with all settings, please click 'Apply' button to continue with other setup procedures.

48

2-7-3 Wireless Security

It's very important to set wireless security settings properly. If you don't, hackers and malicious users can reach your network and valuable data without your consent and this will cause serious security problem.

To set wireless security settings, Please click 'Wireless Security' menu on the left of web management interface, under the 'Wireless' tab and then follow the instructions mentioned below to set wireless security settings:

Wireless Security if selected Disable

When you select this mode, data encryption is disabled, and every wireless device in proximity will be able to connect to your wireless router if no other security measure is enabled (like Access Control or disable SSID broadcast).

Only use this option when you really want to allow everyone to use your wireless router, and you don't care if there's someone reading the data you transfer over network without your consent.

A. WEP

When you select this mode, the wireless router will use WEP encryption, and the following setup menu will be shown on your web browser.

IGISOL			DG-BR4015N			5 N	
				150Mk	ops Wireless B	roadba	nd 3G Router
Wizard					Lan:192	.168.2.1 T	ue 2011-11-29 15:40:14
Internet Mode(3G)							
▼ Network							
▼ Wireless	Select SSID		DG-BR4015N				
Basic			BO BREFIN				
Advance	"DG-BR4015N"		1				
Wireless Security	Security Mode		WEP	*			
WPS	Wire Equivalence	e Protection (WEP)	¥				
WDS	Default Key	1	Key 1 💌				
AP Clients List		WEP Key 1 :			Hex 💌		
Statistics	WEP Keys	WEP Key 2 :			Hex 🔽		
▼ Firewall	NEI Köyö	WEP Key 3 :			Hex 💌		
		WEP Key 4 :			Hex 💌		

49

Parameter	Description
Default Tx Key	When 'WEP' Encryption is enabled then 'Key 1' will appear in this field.
Key Format	There are two types of key format: ASCII and Hex. When you select a key format, the number of characters of key will be displayed.
Encryption Key 1	Input WEP key characters here, the number of characters must be the same as the number displayed at 'Key Format' field. You can use any alphanumerical characters (0-9, a-z, and A-Z) if you select 'ASCII' key format, and if you select 'Hex' as key format, you can use characters 0-9, a-f, and A-F. You must enter at least one encryption key here, and if you have entered multiple WEP keys, they should not be the same.
Policy	If Enabled, as per the policy defined clients will be either allowed or rejected to connect wireless network.
MAC	Enter the MAC address of client.

Here are descriptions of every setup item:

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures.

B. WPA-PSK/WPA2-PSK

The WPA or WPA2 mode uses a common password phrase, called a Pre-Shared Key, that must be manually distributed to all clients that want to connect to the network. Specify a key as an easy-to-remember form of letters and numbers. The WPA/WPA2 Preshared Key can be input as ASCII string (8-63 characters).

	SOL	DG-BR4015N
		150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Wed 2011-11-30 10:32:21
Internet Mode(3G)	Wireless Security	/Encruption Settings
▼ Network	Wireless decurity	reneryption settings
▼ Wireless	Setup the wireless security an	id encryption to prevent from unauthorized access and monitoring.
Basic		
Advance	Select SSID	
Wireless Security	SSID choice	DG-BR4015N
WPS	"DG-BR4015N"	
WDS	Security Mode	WPA-WPA2-PSK
AP Clients List	WPA	
Statistics	WPA Algorithms	OTKIP OAES OTKIPAES
▼ Firewall	Pass Phrase	12345678
▼ Advance	Key Renewal Interval	3600 seconds (0~4194303)
▼ Management	Access Policy (ACL)	
V Management	Policy	Disable 💌
▼ Status	Add a station Mac:	

Following screen appears if you select WPA-WPA2-PSK.

Description Parameter TKIP will change the encryption key frequently to enhance the TKIP wireless LAN security. AES uses CCMP protocol to change encryption key frequently. AES can provide high level encryption to enhance the wireless AES LAN security. TKIP or AES based on the other communication peer TKIP/AES automatically. The Pass phrase key is used to authenticate and encrypt data transmitted over the wireless network. Enter at least 8 character pass phrase as the pre-shared keys. Pass Phrase Router generates key that is actually used for the encryption Key renewal Interval between the host and router at interval defined. You can also secure wireless by defining policy. Policy Enter the station MAC Address that will be either allowed or rejected as per the policy defined. Add a station MAC

Here are the descriptions of every setup item.

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures.

C. WPA-RADIUS

Wi-Fi Protected Access (WPA) is an advanced security standard. You can use an external RADIUS server to authenticate wireless stations and provide the session key to encrypt data during communication. It uses TKIP or AES to change the encryption key frequently, and this will improve security.

Following screen appears if you select 'WPA-RADIUS'.

	SOL	DG-BR4015N	
		150Mbps Wireless Broadband	3G Router
Wizard		Lan:192.168.2.1 Wed 20	11-11-30 10:49:10
Internet Mode(3G)	SSID choice	DG-BR4015N 💌	
▼ Network	"DG-BR4015N"		
▼ Wireless	Security Mode	WPA-RADIUS	
Basic	WDA		
Advance	WPA Algorithms		
Wireless Security	Key Renewal Interval	3600 seconds (0~4194303)	
WPS	Radius Server		
WDS	IP Address		
AP Clients List	Port	1812	
Statistics	Shared Secret		
▼ Firewall	Session Timeout	0	
	Marcolari M.		

Here are the descriptions of every setup items.

Parameter	Description
TKIP	TKIP will change the encryption key frequently to enhance the wireless LAN security.
AES	AES uses CCMP protocol to change encryption key frequently. AES can provide high level encryption to enhance the wireless LAN security.
TKIP/AES	TKIP or AES based on the other communication peer automatically.
Key renewal Interval	Router generates key that is actually used for the encryption between the host and router at interval defined.
IP Address	The IP address of external RADIUS server.
Port	The service port of the external RADIUS server.
Shared Secret	The password used by external RADIUS server.
Session Timeout	RADIUS server sets timeout session for the clients as pe the credit available.
Idle Timeout	Clients will be timeout if it remains idle for time specified.
Policy	You can also secure wireless by defining policy.
Add a station MAC	Enter the station MAC Address that will be either allowed or rejected as per the policy defined.

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures.

D. WPA2-RADIUS

WPA2 is advanced and upgraded form of WPA. WPA2 provides better and secure wireless network as compared to WPA.

Following screen appears if you select 'WPA2-RADIUS'

Dici	SOL	D	G-BR4015N
		150Mbps Wi	reless Broadband 3G Router
Wizard			Lan:192.168.2.1 Wed 2011-11-30 11:48:48
Internet Mode(3G)	SSID choice	DG-BR4015N 💌	
▼ Network	"DC DD4045N"		
▼ Wireless	Security Mode	WPA2-BADIUS	
Basic			
Advance	WPA		
	WPA Algorithms	OTKIP OAES OTKIPAES	
Wireless Security	Key Renewal Interval	3600 seconds (0 ~ 4194303)	
WPS	PMK Cache Period	10 minute	
WDS	Pre-Authentication	Oisable ○ Enable	
AP Clients List	Radius Server		
Statistics	IP Address		
▼ Firewall	Port	1812	
▼ Advance	Shared Secret		
▼ Management	Session Timeout	0	

Here are the descriptions of every setup items:

Parameter	Description
ТКІР	TKIP will change the encryption key frequently to enhance the wireless LAN security.
AES	AES uses CCMP protocol to change encryption key frequently. AES can provide high level encryption to enhance the wireless LAN security.
TKIP/AES	TKIP or AES based on the other communication peer automatically.
Key renewal Interval	Router generates key that is actually used for the encryption between the host and router at interval defined.
PMK Cache Period	WPA2 wireless clients and wireless AP cache the results of 802.1X authentications. Therefore, access is much faster when a wireless client roams back to a wireless access point to which the client already authenticated.
Preauthentication	WPA2 wireless client can perform an 802.1X authentication with other wireless access points in its range when it is still connected to its current wireless access point.
IP Address	The IP address of external RADIUS server.
Port	The service port of the external RADIUS server.
Shared Secret	The password used by external RADIUS server.
Session Timeout	RADIUS server sets timeout session for the clients as pe the credit available.
Idle Timeout	Clients will be timeout if it remains idle for time specified.
Policy	You can also secure wireless by defining policy.
Add a station MAC	Enter the station MAC Address that will be either allowed or rejected as per the policy defined.

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures.

2-7-4 WPS (Wi-Fi Protected Setup)

Wi-Fi Protected Setup (WPS) is the simplest way to build connection between wireless network clients and this wireless router. You don't have to select encryption mode and input a long encryption passphrase every time when you need to setup a wireless client, you only have to press a button on wireless client and this wireless router, and the WPS will do the rest for you.

This wireless router supports two types of WPS: Push-Button Configuration (PBC), and PIN code. If you want to use PBC, you have to push a specific button on the wireless client to start WPS mode, and switch this wireless router to WPS mode too. You can push Reset/WPS button of this wireless router, or click 'Start PBC' button in the web configuration interface to do this; if you want to use PIN code, you have to know the PIN code of wireless client and switch it to WPS mode, then provide the PIN code of the wireless client you wish to connect to this wireless router.

Please click 'WPS' menu on the left of web management interface, under the 'Wireless' tab, and the following screen will be displayed on your web browser.

	SOL	DG-BR4015N
		150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Tue 2011-11-29 17:17:14
Internet Mode(3G)	Wi Ei Protostad Satu	*
▼ Network	WI-FI FIOlected Set	1P
▼ Wireless	You could setup security easily by	/ choosing PIN or PBC method to do Wi-Fi Protected Setup.
	WPS Config	
Basic	WPS:	Enable 💌
Advance	Apply	
Wireless Security		
	WPS Summary	
WPS	WPS Current Status:	Idle
WDS	WPS Configured:	Yes
10.00	WPS SSID:	DG-BR4015N
AP Clients List	WPS Auth Mode:	Open
Statistics	WPS Encryp Type:	None
	WPS Default Key Index:	1
V Firewall	WPS Key(ASCII)	
▼ Advance	AP PIN:	31662406 Generate
▼ Management	Reset OOB	

Parameter	Description
WPS mode	Select Enable from drop down list to start WPS function.
PBC	Select PBC if you wish to connect using push button. Also, enable
	PBC on clients so they can connect with WPS security.
PIN	Enter the PIN obtained from client into the router so as to connect
	using WPS security.

Here are the descriptions of every setup item.

You can view the WPS current status under summary.

2-6-5 WDS (Wireless Distribution System)

WDS mode is used to extend the wireless network coverage. The AP/Router can be linked to other AP using WDS. To set up links between access point units, you must configure the Wireless Distribution System (WDS) forwarding table by specifying the wireless MAC address of all units to which you want to forward traffic.

This uses the MAC addresses of the station and that of the AP connected to it on the transmitting LAN, and the MAC addresses of the AP functioning as a wireless repeater/bridge and that of the station connected to it on a neighboring LAN in the 802.11 frame header.

Note: The wireless AP/Router does not support the spanning tree algorithm. WDS links should be configured appropriately to avoid causing loops on the network.

To set **WDS** settings, Please click '**WDS**' menu on the left of web management interface, under the '**Wireless**' tab.

Digi	SOL ^{TT} DG-BR4015N 150Mbps Wireless Broadband 3G Router
Wizard	Lan:192.168.2.1 Tue 2011-11-29 16:15:35
Internet Mode(3G)	Wireless Distribution System(WDS)
▼ Network	
▼ Wireless	Ose WDS to External your wireless network Coverage:
Basic	
Advance	Wireless Distribution System(WDS)
Wireless Security	WDS Mode Disable
WPS	Apply Lazy Mode ncel Bridge Mode
WDS	Repeater Mode

Here are the descriptions of every setup item.



58

Parameter	Description
WDS Mode	WDS mode is disabled by default. You can set WDS in 3 different
	modes.
Lazy Mode	Operates in an automatic mode that detects and learns WDS peer addresses without the need to configure a WDS list entry This feature allows the wireless AP/Router to associate with other AP/Router in the network and use their WDS MAC list.
Bridge Mode	Operates as a standard bridge that forwards traffic between WDS links (links that connect to other AP/wireless bridges). Here you need to configure WDS MAC list.
Repeater Mode	Operates as a wireless repeater, extending the range for remote wireless clients and connecting them to an AP using repeater mode.

If you are finish with the settings, please click '**Apply**' button to continue with setup procedure.

2-7-6 AP Clients List

Displays the Clients lists that are associated to AP/Router.

DIGI	SOL					150M	C bps \	G-BR4015N Vireless Broadband 3G Ro
Wizard								Lan:192.168.2.1 Tue 2011-11-29
Internet Mode(3G)	AP Clients Lis	+						
▼ Network	Ar Gients Els							
▼ Wireless	You could monitor clien	ts that are a	associate	ed to this AP h	ere.			
Basic	Wireless Network							
Advance	MAC Address	Aid	PSM	MimoPS	MCS	BW	SGI	STBC
Wireless Security	00:19:5B:10:8F:1E	1	0	3	7	20M	1	0
WPS								
WDS								
1120								

2-7-7 Statistics

Displays the Wireless Tx/Rx statistics.

JIGI	SOĽ		D 150Mbps V	G-BR4015N Vireless Broadband 3G Router
Wizard				Lan:192.168.2.1 Tue 2011-11-29 16:33:16
Internet Mode(3G)	Transmit/Peo	oive Statistics		
▼ Network	Tansmukeu	eive statistics		
▼ Wireless	The Status page show	vs the Wireless Transmit/Recei	ve Statistics	
Basic	Transmit Statistics			
Advance	Tx Success		13692	
	Tx Retry Count		125	
Wireless Security	Tx Fail after retry		3	
WPS	RTS Sucessfully Recei	ve CTS	0	
	RTS Fail To Receive C	ſS	0	
WDS	Receive Statistics			
AP Clients List	Frames Received Succ	essfully	363308	
	Frames Received With	CRC Error	177654	
Statistics	SNR			
▼ Firewall	SNR	25, n/a, n/a		
▼ Advance		Reset Count	ers	

2-8 Firewall

A **firewall** is designed to permit or deny network transmissions based upon a set of rules and is frequently used to protect networks from unauthorized access while permitting legitimate communications to pass. The firewall can also block users from accessing the specific URL.

Please click '**Firewall**' menu on the left of web management interface, and the following screen will be displayed on your web browser.

Digi	SOL	DG-BR4015N 150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Tue 2011-11-29 12:50:40
Internet Mode(3G)	Remote management	
▼ Network	Remote management (via vvAiv) Deny	
▼ Wireless	Ping form WAN Filter	
▼ Firewall	Ping form WAN Filter Disable 💌	
Qos BwLimit		
TCP/IP Filter	Block Port Scan	
Url Filter	Block port scan Disable 💙	
System Security	Block SYN Flood	
▼ Advance	Block SYN Flood Disable 💌	
▼ Management		
▼ Status	Stateful Packet Inspection (SPI)	
150Mbps Wireless 3G Router I	Apply Reset	

2-8-1 QoS (Quality of Service)

You may setup rules to provide Quality of Service guarantees for specific applications.

To set QoS settings, Please click '**QoS BwLimit**' menu on the left of web management interface, under the '**Firewall**' tab and following screen will be displayed.

) IGI	SOL	DG-BR4015N
		150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Tue 2011-11-29 12:14:4
Internet Mode(3G)	Quality of Service	Settings
▼ Network	You may setup rules to provide	e Quality of Service guarantees for specific applications.
Vireless		
▼ Firewall	OoS Sotup	
Qos BwLimit	Quality of Service	Disable
TCP/IP Filter	Upload Bandwidth:	User defined 🔗 Bits/sec
Url Filter	Download Bandwidth:	User defined 🛩 Bits/sec
System Security	QoS Model:	DRR
	Reserved bandwidth:	0% 字 (10% is recommanded)
▼ Management	Submit	
▼ Status		

If you are finish with the settings, please click '**Submit**' button to continue with setup procedure.

2-8-2 TCP/IP Filter

In this section you can setup firewall rules using MAC/IP/Port Filtering to restrict certain types of data packets from your local network to Internet through the router.

IGISOL

Please click 'TCP/IP Filter menu on the left of web management interface, under the 'Firewall' tab and the following screen will be displayed on your web browser.

	SOL [®] DG-BR4015N
	150Mbps Wireless Broadband 3G Router
Wizard	Lan:192.168.2.1 Wed 2011-11-30 09:49:35
Internet Mode(3G)	MAC/IP/Port Filtering Settings
▼ Network	You may setup firewall rules using MAC/IP/Port Filtering to restrict certain types of data packets from your local network to
▼ Wireless	Internet through the router.
▼ Firewall	
Qos BwLimit	Basic Settings
TCP/IP Filter	MAC/IP/Port Filtering Disable 💌
Url Filter	Default Policy The packet that don't match with any rules would be: Dropped. 💙
System Security	Apply Reset
▼ Advance	
▼ Management	
▼ Status	MAC/IP/Port Filter Settings
	Source MAC address
	Dect IP Address

By default, the MAC/IP/Port Filtering feature is disabled.

Note : When Access Control is disabled, every device on the LAN has unrestricted access to the Internet. However, if you enable Filtering, Internet access is restricted / allowed for those devices that have an Access Control Policy configured for them. All other devices will match with default policy and will be dropped or allowed as per the default policy configured.

Here are the descriptions of every setup item.

Parameter	Description
Source MAC Address	Enter the Source MAC Addres.
Dest IP Address	Enter the Dest IP Address.
Source IP Address	Enter the Soure IP Address.
Protocol	Enter the Protocol TCP/UDP/ICMP.
Dest Port Range	Enter Destination port range.
Source Port Range	Enter Source port range.
Action	Enter the Action either Accept or Reject.





When you finish with all settings, please click '**Apply**' button to continue with other setup procedures. If you want to reset the setting click on '**Reset**'.

2-8-3 URL Filter

URL Filter is a web solution that blocks web-sites access according the URL Filter String.

Please click '**URL Filter**' menu on the left of web management interface, under the '**Firewall**' tab and the following screen will be displayed on your web browser.

JIGIS		DG-BR4015N
Wizard	Tourba	Lan:192.168.2.1 Tue 2011-11-29 12:25:49
Internet Mode(3G)	You can setup Content Filter to restrict the improper content access.	<u> </u>
▼ Network	Webs Content Filter	- 1
▼ Wireless	Filters: Proxy Dava ActiveX	
▼ Firewall	Apply Reset	
Qos BwLimit		
TCP/IP Filter	Webs URL Filter Settings	
Url Filter		
System Security	Current Webs URL Filters:	_
▼ Advance	Delete Reset	
▼ Management	Add a URL filter:	
▼ Status	URL:	
	Add Reset	

Here is the description of every setup items:

Parameter	Description
Web Content Filter	There are 3 options. When this options are checked it will filter objects supporting proxy, java and active X.
Web URL Filter	URL Filter blocks web-sites access according to the URL Filter String.
Web Host Filter	URL Filter blocks web-sites access according to the Keyword String.

Click on 'Add' to add the URL strings for filtering. If you want to delete any of the URL string click 'Delete' button.

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures. If you want to reset the setting click on '**Reset**'.

2-8-4 System Security

You can configure system firewall to protect AP/Router from attacks.

Please click '**System Security**' menu on the left of web management interface, under the '**Firewall**' tab and the following screen will be displayed on your web browser.

DIGIS	SOĽ	1	DG-BR4015N 50Mbps Wireless Broadband 3G Router
Wizard			Lan:192.168.2.1 Tue 2011-11-29 12:50:40
Internet Mode(3G)	Remote management	Dame et	-
▼ Network	Remote management (via wav	Deny Y	
▼ Wireless	Ping form WAN Filter		
▼ Firewall	Ping form WAN Filter	Disable 💌	_
Qos BwLimit			
TCP/IP Filter	Block Port Scan		
Url Filter	Block port scan	Disable 💌	
System Security	Block SYN Flood		
▼ Advance	Block SYN Flood	Disable 🔽	
▼ Management			
▼ Status	Stateful Packet Inspection (SP	PI)	
	SPI Firewall	Disable 💌	
150Mbps Wireless 3G Router	Apply Reset		

ParameterDescriptionRemote ManagementAllows you to access router remotely.Ping from WAN FilterIf Enabled, will block all ICMP packets on the WAN
port.Block Port ScanTo block the suspected port scan flood.Block SYN FloodTo block the suspected SYN flood.SPIStateful Packet Inspection keeps track of the state of
network connections (such as TCP streams, UDP
communication) traveling across it.

Here are the descriptions of every setup item.

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures. If you want to reset the setting click on '**Reset**'.

2-9 Advance

In this section you can configure advance setting like DDNS, Routing, DMZ, Port Forwarding and run System command as a root.

2-9-1 DDNS Domain

Use DDNS only if you have purchased your own domain name and registered with a dynamic DNS service provider. The following screen is displayed when you click on '**DDNS**' menu on the left of web management interface, under the '**Advance**' tab.

JIGISOL		DG-BR4015N
		150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Tue 2011-11-29 10:22:42
Internet Møde(3G)	Dynamic DNS Setting	
▼ Network	You may setup Dynamic DNS setting	y here.
▼ Wireless		
▼ Firewall		
▼ Advance	Dynamic DNS Brovider	Nana
DDNS Domain	Account	
Routing	Password	
DMZ	DDNS	
Port Forwarding	Appl	ly Cancel

67

Here are the descriptions of every setup item.

Parameter	Description
Dynamic DNS Provider	Select a dynamic DNS service provider from the drop-down list.
Account	Enter the account provided by your service provider.
Password	Enter the password provided by your service provider.
DDNS	Enter your host name, for example: myhost.mydomain.net.

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures.

2-9-2 Routing

With static routing, the router can forward packets according to your routing rules. In this section you can manually create and remove static route.

The following screen is displayed when you click on '**Routing**' menu on the left of web management interface, under the '**Advance**' tab.

IGISOL		DG-BR4015N
		150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Tue 2011-11-29 11:26:30
Internet Mode(3G)	Static Route S	setting
▼ Network	You may add or remove	e custom routina rules usina Static Router Settinas.
▼ Wireless		
▼ Firewall		
▼ Advance	Add a routing rule	
DDNS Domain	Range	Host V
Routing	Gateway	
DMZ	Interface	
Port Forwarding	Comment	
System Command		
▼ Management	Appiy Reset	

68

Here is the description of every setup items.

Parameter	Description		
Destination	Destination IP address of packets that will take this route		
Range	Select either range of IP address or Single host		
Gateway	Specifies the next hop to be taken if this route is used. A gateway of 0.0.0.0 implies there is no next hop, and the IP address matched is directly connected to the router on the interface specified LAN or WAN.		
Interface	Specifies the interface : LAN or WAN that the IP packet must use to transit out of the router, when this route is used.		

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures. If you want to reset the setting click on '**Reset**'.

2-9-3 DMZ

DMZ means "Demilitarized Zone." If an application has trouble working from behind the router, you can expose one computer to the Internet and run the application on that computer.

The following screen is displayed when you click on '**DMZ**' menu on the left of web management interface, under the '**Advance**' tab.

JIGISOL			DG-BR4015N	
		1	50Mbps Wireless Broadt	oand 3G Router
Wizard			Lan:192.168.2.1	Tue 2011-11-29 11:34:15
Internet Mode(3G)	DMZ Settings			_
▼ Network	You may setup a De-mi	ilitarized Zone(DMZ) to separate internal network	and Internet.	
▼ Wireless				
▼ Firewall				
▼ Advance	DMZ Settings	Disable 🗸		
DDNS Domain	DMZ IP Address			
Routing		Except TCP port 80		
DMZ	Apply Reset			
Port Forwarding	(tober			

Here is the description of every setup items:

Parameter	Description
DMZ Settings	Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.
DMZ IP Address	Specify the LAN IP address of the LAN computer that you want to have unrestricted Internet communication.
Except TCP port 80	If you wish to block port 80 enable this option.

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures. If you want to reset the setting click on '**Reset**'.

2-9-4 Port Forwarding

This function allows you to redirect a single port or consecutive ports of Internet IP address to the same port of the IP address on a local network. The port number(s) of Internet IP address and private IP address (the IP address on local network) must be the same. If the port number of Internet IP address and private IP address is different, please use 'Virtual Server' function, described in next section.

Please click 'Port Forwarding' menu on the left of web management interface, under the 'Advance' tab and the following screen will be displayed on your web browser.

DIGIS	SOL		DG-BR4015N
			150Mbps Wireless Broadband 3G Router
Wizard			Lan:192.168.2.1 Tue 2011-11-29 11:46:09
Internet Møde(3G)			×
▼ Network	Port Forwarding		_
▼ Wireless	Port Forwarding	Disable 💙	_
▼ Firewall	IP Address		
▼ Advance	Port Range		
DDNS Domain	Protocol	TCP&UDP 🗸	
Routing	Comment		
DMZ		nt is 32.)	
Port Forwarding	Apply Reset		
System Command			
▼ Management	Current Port Forwardin	ng in system:	
▼ Status	No. IP Address	Port Range Protocol Comm	ent

Here is the description of every setup items:

Parameter	Description
Port Forwarding	Specifies whether the entry will be active or inactive.
IP Address	The IP address of the system on your internal network that will provide the virtual service, for example 192.168.2.20
Port Range	Enter the range of TCP or UDP ports to be opened.
Protocol	Select the protocol used by the service. The common choices UDP, TCP, and both UDP and TCP can be selected from the drop-down menu.



When you finish with all settings, please click 'Apply' button to continue with other setup procedures. If you want to reset the setting click on 'Reset'.

Virtual Server

This function allows you to redirect a port on Internet IP address (on WAN port) to a specified port of an IP address on local network, so you can setup an Internet service on the computer on local network, without exposing it on Internet directly. You can also build many sets of port redirection, to provide many different Internet services on different local computers via a single Internet IP address.

Please click 'Virtual Server' menu on the left of web management interface, under the 'Advance' tab and the following screen will be displayed on your web browser.

JIGISOL			DG-BR4015N	
			150Mbps Wireless Broadb	and 3G Router
Wizard			Lan:192.168.2.1	Tue 2011-11-29 11:54:30
Internet Mode(3G)				A
▼ Network	Virtual Server	Diaphle		
▼ Wireless	IP Address			
▼ Firewall	Public Port			
▼ Advance	Private Port			
DDNS Domain	Protocol	TCP&UDP		
Routing	Comment			
DMZ	(The maximum rule cou	int is 32.)		
Port Forwarding	Apply Reset			

Here is the description of every setup items:

Parameter	Description
Virtual Server	Specifies whether the entry will be active or inactive.
IP Address	The IP address of the system on your internal network that will provide the virtual service, for example 192.168.2.20
Public Port	The port that will be accessed from the Internet.
Private Port	The port that will be used on your internal network.
Protocol	Select the protocol used by the service. The common choices UDP, TCP, and both UDP and TCP can be selected from the drop-down menu.
JIGISOL

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures. If you want to reset the setting click on '**Reset**'.

2-9-5 System Command

In this section, you can run a system command as root.

DIGIS	SOĽ	DG-BR4015N 150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Tue 2011-11-29 12:00:56
Internet Mode(3G)	System Command	×
▼ Network	Run a system command as root:	
▼ Wireless		
▼ Firewall	Command:	
▼ Advance	<u>µ</u>	
DDNS Domain		
Routing		
DMZ		
Port Forwarding		
System Command		
▼ Management		
▼ Status	Apply Cancel	

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures.

2-10 Management

In this section you can configure the admin password, NTP setting, Factory setting and Upload firmware.

2-10-1 System Management

Please click '**Management'** tab and the following screen will be displayed on your web browser.

IGIS	OL	DG-BR4015N
		150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Tue 2011-11-29 09:36:03
Internet Mode(3G)	Language Settings	
▼ Network	Select Language	English
▼ Wireless	Appl	y Cancel
▼ Firewall	Administration Cottinue	
▼ Advance	Account	admin
▼ Management	Password	
Language(Time)		V Cancel
Settings File(Factory)		
Software Register	NTP Settings	
Upload Firmware	Current Time	Sat Jan 1 00:36:39 UTC 2000 Sync with host
▼ Status	Time Zone:	(GMT+05:30) India
	NTP Server	Ex: time.nist.gov
	NTP synchronization(hours)	
150Mbps Wireless 3G Router Copyright ©2011	Аррі	y Cancel

Here is description of every setup items.

Parameter	Description	
Language Settings	Select English or Simple Chinese as per the user need. Recommended is English.	
Administrator Setting	Enter a password for the user "admin", who will have full access to the Web-based management interface.	
NTP Settings		
Current Time	Displays the time currently maintained by the router. If this is not correct, use the following options to configure the time correctly.	
Time Zone	Select your local time zone from drop down menu	
NTP Server	Select a Network Time Server for synchronization. You can type in the address of a time server. If you have trouble using one server, enter another.	
Sync with Host	Select this option if you want to sync router time with your desktop.	

When you finish with all settings, please click '**Apply**' button to continue with other setup procedures.

2-10-2 Settings File (Factory)

In this section you can save system settings, by exporting the configuration file, restoring by importing the file or reset router to factory default setting.

Please click '**Settings File (Factory**)' menu on the left of web management interface, under the '**Management**' tab and the following screen will be displayed on your web browser.

DIGIS	DG-BR4015N
	150Mbps Wireless Broadband 3G Router
Wizard	Lan:192.168.2.1 Tue 2011-11-29 09:55:09
Internet Mode(3G)	Settings Management
▼ Network	You might save system settings by exporting them to a configuration file, restore them by importing the file, or reset them to
▼ Wireless	factory default.
▼ Firewall	
▼ Advance	Export Settings
▼ Management	Export Button Export
Language(Time)	
Settings File(Factory)	Import Settings
Software Register	Settings file location Browse
Upload Firmware	import Cancer
▼ Status	Load Factory Defaults
	Load Default Button

Here is the description of every setup items.

Export Settings.	This option allows you to export and then save the router's configuration to a file on your computer. Be sure to save the configuration before performing a firmware upgrade	
Import Settings	Use this option to restore previously saved router configuration settings.	
Load Factory Default	This option restores all configuration settings back to the settings that were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost. If you want to save your router configuration settings, use the Export Settings option above.	

2-10-3 Upload Firmware

Once you have a firmware update on your computer, use this option to browse for the file and then upload the information into the router.

Please click '**Upload Firmware**' menu on the left of web management interface, under the '**Management**' tab and the following screen will be displayed on your web browser.

JIGIS	DG-BR4015N 150Mbps Wireless Broadband 3G Router
Wizard	Lan:192.168.2.1 Tue 2011-11-29 10:06:30
Internet Mode(3G)	Upgrade Firmware
▼ Network	Upgrade the firmware to obtain new functionality.
▼ Wireless	It takes about 1 minute to upload, upgrade flash and be patient please. Caution! A corrupted image will hang up the system.
▼ Firewall	Update Firmware
▼ Advance	Location: Browse
▼ Management	Арріу
Language(Time)	
Settings File(Factory)	
Software Register	
Upload Firmware	
▼ Status	

2-11 Status

In this section, you can look at the status of 3G wireless Router, such as System Info, Internet Configurations, and Local Network.

	SOĽ	DG-BR4015N
		150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Tue 2011-11-29 09:27:07
Internet Mode(3G)	Router Status	A
▼ Network	Let's take a look at the status of DG	-BR4015N Platform.
▼ Wireless	System Info	
	Firmware Version	3050(X71N)-32M4M-1T1R-V1.2-DIGISOL(20111117) (Nov 17 2011)
▼ Firewall	System Up Time	33 mins, 36 secs
- A June	System Description	150Mbps Wireless Broadband 3G Router
• Auvance	Operation Mode	Gateway Mode
▼ Management	Internet Configurations	
	Connected Type	3G Sig:N/A Please Insert USB Dongle.
▼ Status	WAN IP Address	
	Subnet Mask	
	Default Gateway	
	Primary Domain Name Server	
	Secondary Domain Name Server	

2-11-1 Syslog

In this section you can view the log generated. Click '**Refresh**' to get new log message and click '**Clear**' to clear the syslog table.

	SOL DG-BR4015N
	150Mbps Wireless Broadband 3G Router
Wizard	Lan:192.168.2.1 Tue 2011-11-29 09:25:18
Internet Møde(3G)	System Log
▼ Network	You can see a professional linux system log
▼ Wireless	Refresh Clear
▼ Firewall	System Log
▼ Advance	Jan 1 00:00:26 DG-BR4015N user.warn kernel:
▼ Management	Jan 1 00:00:26 DG-BR4015N user.warn kernel: eth2 mii.o query= phy_id:0, address:1 retval:7849 Jan 1 00:00:26 DG-BR4015N user.warn kernel: Ralink APSoC Ethernet Driver Initilization. v2.0 256
▼ Status	Jan 1 00:00:26 DG-BR4015N user.warn kernel: MAC_ADRL : 0x0000000c Jan 1 00:00:26 DG-BR4015N user.warn kernel: MAC_ADRL : 0x43305077
Syslog	Jan 1 00:00:26 DG-BR4015N user.alert kernel: FROC INIT OK! Jan 1 00:00:26 DG-BR4015N user.info kernel: IMQ starting with 2 devices Jan 1 00:00:26 DG-BR4015N user.info kernel: IMQ driver loaded successfully.
Debert	Jan 1 00:00:26 DG-BR4015N user.info kernel: Hooking IMQ before NAT on PREROUTING.





2-11-2 Reboot

It is useful for restarting when you are not near the device.

JIGI	SOĽ	DG-BR4015N 150Mbps Wireless Broadband 3G Router
Wizard		Lan:192.168.2.1 Tue 2011-11-29 09:28:19
Internet Mode(3G)	Router Status	·
▼ Network	Let's take a look at the statur Windows Inte	rnet Explorer 🗙
▼ Wireless	System Info	
▼ Firewall	Firmware Version	I-1T1R-V1.2-DIGISOL(20111117) (Nov 17 2011)
	System Up Time	
▼ Advance	System Description	Broadband 3G Router
▼ Management	Operation Mode	Gateway Mode
	Internet Configurations	
▼ Status	Connected Type	3G Sig:N/A Please Insert USB Dongle.
Syslog	WAN IP Address	
	Subnet Mask	
Reboot	Default Gateway	
	Primary Domain Name Server	
	Secondary Domain Name Server	
	MAC Address	00:0C:43:30:50:66
	Local Network	
	Local IP Address	192.168.2.1