

WL-351 Wireless Gigabit Router 300N X3

WL-368

Wireless Gigabit Router 300N X2

(802.11bgn)



User Manual

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Introduction

Congratulations on your purchase of the WL-351/368 Wireless Gigabit Router 300N. The WL-351/368 is compliant with 802.11n and up to 6 times faster than standard 802.11g based routers while still being compatible with 802.11g & 802.11b gadgets. The WL-351/368 is not only a Wireless Access Point, but also doubles as a 4-port full-duplex Gigabit switch that connects your wired-Ethernet devices together at 10/100/1000 Mbps speeds.

At 300 Mbps wireless transmission rate, the Access Point built into the Router uses advanced MIMO (Multi-Input, Multi-Output) technology to transmit multiple streams of data in a single wireless channel, giving you seamless access to multimedia content. The robust RF signal travels farther, eliminates dead spots and extends the network range. For data protection and privacy, the WL-351/368 encodes all wireless transmissions with WEP, WPA, or WPA2 encryption.

With the inbuilt DHCP Server & powerful SPI firewall, the WL-351/368 protects your computers against intruders and most known Internet attacks and also provides safe VPN pass-through. With the incredible speed and QoS function of 802.11n, the WL-351/368 is ideal for media-centric applications like streaming video, gaming, and VoIP telephony to run multiple media-intense data streams through the network at the same time, with no degradation in performance.

1 Key Features

Features	Advantages
Incredible Data Rate up to	Heavy data payloads such as
300Mbps*	MPEG video streaming
IEEE 802.11n Compliant and	Fully Interoperable with IEEE
backward compatible with	802.11b / IEEE802.11g
802.11b/g	compliant devices with legacy
	protection
Four 10/100/1000 Mbps gigabit	Scalability, extend your network.
Switch Ports (Auto-Crossover)	
Firewall supports Virtual Server	Avoids the attacks of Hackers or
Mapping, DMZ, IP Filter, ICMP	Viruses from Internet
Blocking, SPI	
Support 802.1x authenticator,	Provide mutual authentication
802.11i (WPA/WPA2, AES), VPN	(Client and dynamic encryption
pass-through	keys to enhance security
WDS (Wireless Distribution System)	Make wireless AP and Bridge
	mode simultaneously as a
	wireless repeater

* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate. All specifications are subject to change without notice.

2 Package Contents

Open the package carefully, and make sure that none of the items listed below are missing. Do not discard the packing materials, in case of return; the unit must be shipped back in its original package.

- 1. The WL-351/368 Router
- 2. A 220V~240V Power Adapter
- 3. A Quick Install Guide
- 4. A CD (User's Manual)
- 5. A Warranty card
- 6. An UTP cable

3 Product Layout



Port	Description
Power connector	Connect the 12V DC adapter to this port
LAN (Yellow)	Connect your PC's or network devices to this port
WAN (Blue)	Connect your ADSL/Cable modem to this port

Backlabel

The backlabel describes the IP address, login details, SSID, security code and WPS button functionality.

To access the router configuration, type the following IP address in your internet browser: 192.168.0.1 Username: admin / Password: admin	Press 2 sec. = WPS mode Press 10 sec. = Reset Press 15 sec. = Factory default
To make a wireless connection with this router, choose the network:	
WPA2 code	LAN LAN LAN WAN WLAN WPS POWER SITECOM
Serial No.:	Wireless Gigabit Router 300N X3
8716502 021505 Adde in China	

Button	Description
	Press 2 seconds for WPS mode
WPS BUTTON	Press 10 seconds to reset the router
	Press 15 Seconds to reset the router to factory defaults.

LED Definition

From left to right.

Port	Description
LAN (Blue)	Shows the cable is connected.
LAN (Blue)	Shows the cable is connected.
LAN (Blue)	Shows the cable is connected.
LAN (Blue)	Shows the cable is connected.
WAN (Blue)	Shows the cable is connected.
WiFi (Blue)	Shows WiFi activity.
Power (Red)	Shows the device is turned on.
OPS (Blue)	Shows OPS activity.



4 Network + System Requirements

To begin using the WL-351/368, make sure you meet the following as minimum requirements:

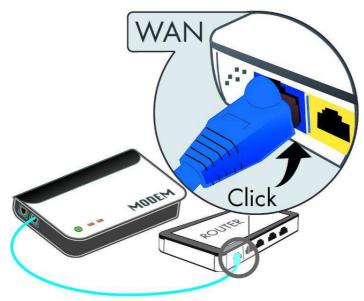
- PC/Notebook.
- Operating System Microsoft Windows XP/2000/VISTA
- 1 Free Ethernet port.
- WiFi card/USB dongle (802.11 b/g/n) optional.
- External xDSL (ADSL) or Cable modem with an Ethernet port (RJ-45).
- PC with a Web-Browser (Internet Explorer, Safari, Firefox, Opera)
- Ethernet compatible CAT5 cables.

5 WL-351/368 Placement

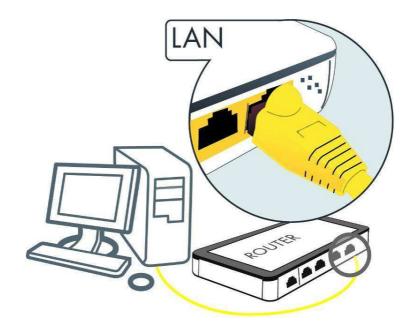
You can place the WL-351/368 on a desk or other flat surface, or you can mount it on a wall. For optimal performance, place your Wireless Broadband Router in the center of your office (or your home) in a location that is away from any potential source of interference, such as a metal wall or microwave oven. This location must be close to a power connection and your ADSL/Cable modem.

6 Setup LAN, WAN

WAN connection:



LAN connection:



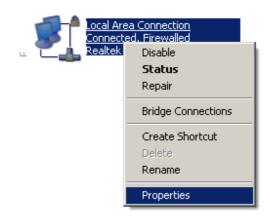
7 PC Network Adapter setup

Windows XP

• Enter [Start Menu] → select [Control panel] → select [Network].



• Select [Local Area Connection]) icon=>select [properties]



• Select [Internet Protocol (TCP/IP)] =>Click [Properties].

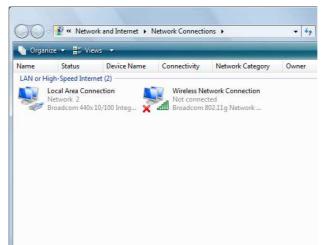
Local Area Connection Proper	ties		?
General Authentication Advance	ed		
Connect using:			
Bealtek RTL8168/8111 PC	-E Gigabi		onfigure
This connection uses the following	items:		
The Network Monitor Driver The Microsoft TCP/IP version The Internet Protocol (TCP/IP			
•			
I <u>n</u> stall <u>U</u> nins	stall	Pj	operties
Transmission Control Protocol/In wide area network protocol that across diverse interconnected n	provides c		
 Sho<u>w</u> icon in notification area v Notify <u>me</u> when this connection 			onnectivity
		к	Cancel
ternet Protocol (TCP/IP) Prope	rtios		2
aeneral Alternate Configuration			
You can get IP settings assigned autor this capability. Otherwise, you need to the appropriate IP settings.	ask your nel		
Obtain an IP address automatical Ouse the following IP address:	ya		
IP address:		× -	
Subnet mask:	1	A 13	
Default gateway:		6	
Obtain DNS server address auton	natically) a		
O Use the following DNS server add	tresses:		h
D. J. IDMD			
Prefetted DNS server.		5 73	
Alternate DNS server.		8 8 8 8	
			Advanced

• Select the [General] tab.

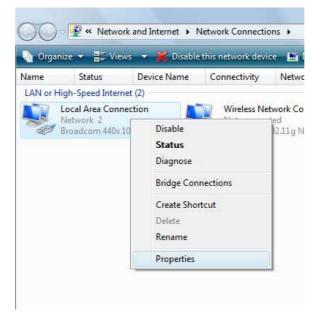
a. The WL-351/368 supports [DHCP] function, please select both [Obtain an IP address automatically] and [Obtain DNS server address automatically].

Windows Vista

 Enter [Start Menu] → select [Control panel] → select [View network status and tasks] -> select [Manage network connections].



• Select [Local Area Connection]) icon=>select [properties]



• Select [Internet Protocol Version 4 (TCP/IPv4)] =>Click [Properties].

Broadcom 440x 10/100 Integrated Controller Configu This connection uses the following items: QoS Packet Scheduler GoS Packet Scheduler File and Printer Sharing for Microsoft Networks AInternet Protocol Version 6 (TCP/IPv6) AInternet Protocol Version 4 (TCP/IPv4) AInternet Protocol Version 4 (TC	ıre
This connection uses the following items: Client for Microsoft Networks Client for Microsoft Networks Client for Microsoft Networks File and Printer Sharing for Microsoft Networks An Internet Protocol Version 6 (TCP/IPv6) An Internet Protocol Version 4 (TCP/IPv4) An Link-Layer Topology Discovery Mapper I/O Driver	ire
This connection uses the following items: Client for Microsoft Networks Client for Microsoft Networks Client for Microsoft Networks File and Printer Sharing for Microsoft Networks An Internet Protocol Version 6 (TCP/IPv6) An Internet Protocol Version 4 (TCP/IPv4) An Link-Layer Topology Discovery Mapper I/O Driver	
☑ QoS Packet Scheduler ☑ ☑ ☑ ☑ Internet Protocol Version 6 (TCP/IPv6) ☑ ▲ Internet Protocol Version 4 (TCP/IPv4) ☑ ▲ Link-Layer Topology Discovery Mapper I/O Driver	
☑ Bele and Printer Sharing for Microsoft Networks ☑ ▲ Internet Protocol Version 6 (TCP/IPv6) ☑ ▲ Internet Protocol Version 4 (TCP/IPv4) ☑ ▲ Link-Layer Topology Discovery Mapper I/O Driver	
🗹 🛥 Link-Layer Topology Discovery Mapper I/O Driver	
Image: Ink-Layer Topology Discovery Responder	
Install Uninstall Properti	es
Description	
et Protocol Version 4 (TCP/IPv4) Properties	ß
eral Alternate Configuration	
u can get IP settings assigned automatically if your network s capability. Otherwise, you need to ask your network admir the appropriate IP settings.	
Use the following IP address:	-
IP address:	
Sybnet mask:	
Default gateway:	
Default gateway: Obtain DNS server address automatically Use the following DNS server addresses:	
Obtain DNS server address automatically Use the following DNS server addresses:	
Obtain DNS server address automatically	

• Select the [General] tab.

The WL-351/368 supports [DHCP] function, please select both [Obtain an IP address automatically] and [Obtain DNS server address automatically].

8 Bring up the WL-351/368

Connect the supplied power-adapter to the power inlet port and connect it to a wall outlet. The WL-351/368 automatically enters the self-test phase. During self-test phase, the Power LED will be lit continuously to indicate that this product is in normal operation.

9 Initial Setup WL-351/368

LOGIN procedure

1. OPEN your browser (e.g. Internet Explorer).



2. Type http://192.168.0.1 in the address bar and press [Enter]

	100	vorites Tools Help	- P
4	Connect	ng	
		Connect to 192.168.0.1	? 2
		The server 192.168.0.1 at Default: a	udmin/admin requires a
		username and password.	anni yaanni requires a
		Warning: This server is requesting th password be sent in an insecure man	
		without a secure connection).	
			1 million of the second se
		User name:	•
		User name:	<u> </u>
			my password
		Password:	wy password

3. Type user name and password (default is admin/admin).



- 4. Click **OK**.
- 5. You will see the home page of the WL-351/368.

NIRELES	Vireless Settin	1	TER	Toolbox		SITECOM Choose your language
System Status	DHCP Server	Device Status	Internet Status	DHCP Status	Log Statistics	
You can use f illegal attemp	the Status page to ots to access your	o monitor the conn network and inforr	ection status for the nation on all DHCP o	WAN/LAN interfac	ces, firmware and hardwar y connected to your netwo	re version numbers, any rk.
Sys tem	-	_				
_	00000	del : Wireless Netv	work Broadband Rou	iter		
	Hardware Versi	ion : Rev. A				
	Serial Numl	ber: 000000001				
	Boot Code Vers					
Ru	ntime Code Versi	ion : 0.1				

The System status section allows you to monitor the current status of your router the UP time, hardware information, serial number as well as firmware version information is displayed here.

LAN settings

The LAN tab gives you the opportunity to change the IP settings of the WL-351/368.

300N RO	UTE	R		SITECOM
A	Firewall Advanced Settin			Choose your language 💌
System Status DHCP Server De	rice Status Internet St	atus DHCP Status	Log Statistics	
You can enable the Broadband route have an IP Address for the Local Are	rs DHCP server to dynamic a Network.	ally allocate IP Addresse	es to your LAN client PCs.	The broadband router must
LAN IP				
IP Address :	192.168.0.1			
IP Subnet Mask :	255.255.255.0			
802.1d Spanning Tree :	Disabled 💌			
DHCP Server :	Enabled 💌			
Lease Time :	Forever 💌			
DHCP Server				
Start IP :	192.168.0.100			
End IP :	192.168.0.200			
Domain Name :	sitecomwl341			
				Apply Cancel

Click **<Apply>** at the bottom of this screen to save any changes.

<u>IP</u> address 192.168.0.1. It is the router's LAN IP address (Your LAN clients default gateway IP address).

<u>IP Subnet Mask</u> 255.255.255.0 Specify a Subnet Mask for your LAN segment.

<u>802.1d</u> Spanning Tree is Disabled by default. If the 802.1d Spanning Tree function is enabled, this router will use the spanning tree protocol to prevent network loops.

DHCP Server Enabled by default. You can enable or disable the DHCP server. When DHCP is disabled no ip-addresses are assigned to clients and you have to use static ip-addresses. When DHCP server is enabled your computers will be assigned an ip-address automatically until the lease time expires. **Lease Time** Forever. In the Lease Time setting you can specify the time period that the DHCP lends an IP address to your LAN clients. The DHCP will change your LAN client's IP address when this time threshold period is reached.

<u>IP Address Pool</u> You can select a particular IP address range for your DHCP server to issue IP addresses to your LAN Clients.

<u>Note</u>: default IP range is 192.168.0.100 ~ 192.168.0.200. If you want your PC(s) to have a static/fixed IP address, then you'll have to choose an IP address outside this IP address Pool

Domain Name You can specify a Domain Name for your LAN. Or just keep the default (sitecomwl351).

Device Status

View the Broadband router's current configuration settings. Device Status displays the configuration settings you've configured in the Wizard / Basic Settings / Wireless Settings section.

WIRELESS ROUTER	SITECOM
Status Wizard Wireless Settings Firewall Advanced Settings Toolbox	Choose your language 💌
System Status DHCP Server Device Status Internet Status DHCP Status Log Statistics View the current setting status of this device. Wireless Configuration	
Mode: AP	
ESSID: Sitecom8C0008	
Channel: 6	
Security : WPA2 pre-shared key	
Associated Clients : 0	
BSSID: 00:FF:52:8C:00:08	
LAN Configuration	
IP Address : 192.168.0.1	
Subnet Mask : 255.255.255.0	
DHCP Server : Enabled	
MAC Address : 00:FF:52:8C:00:08	

Internet Status

This page displays whether the WAN port is connected to a Cable/DSL connection. It also displays the router's WAN IP address, Subnet Mask, and ISP Gateway as well as MAC address, the Primary DNS. Press **Renew** button to renew your WAN IP address.

Status DHCP Server Device St	atus Internet Status	Y Y Y		
		DHCP Status Log	Statistics	
w the current internet connection status	and related information.			
Attain IP Protocol : Dynami	c IP Address			
IP Address :				
Subnet Mask :				
Default Gateway :				
MAC Address : 00:EE	52:8C:00:02			
Primary DNS :				
				Renew
				-

DHCP Client Status

DHCP This page shows all DHCP clients (LAN PCs) currently connected to your network. The table shows the assigned IP address, MAC address and expiration time for each DHCP leased client. Use the Refresh button to update the available information.

You can check **Enable Static DHCP IP**. It is possible to add more static DHCP IPs. They are listed in the table **Current Static DHCP Table**. IP can be deleted at will from the table.

Click **apply** button to save the changed configuration.

Wizard Wireless Settings Firewall A	dvanced Settings Toolbox	Choose your lan
n Status DHCP Server Device Status	Internet Status DHCP Status Log	Statistics
s table shows the assigned IP address, MAC a	address and expiration time for each DHCP lea	sed client.
IP address	MAC address	Expiration Time
	No DHCP.	
Refresh Enable Static DHCP IP IP address	No DHCP. MAC address	22.2
Enable Static DHCP IP IP address		
Enable Static DHCP IP IP address		

WL-351/368 Log

View the operation **log of the WL-351/368**. This page shows the current system log of the Broadband router. It displays any event occurred after system start up. At the bottom of the page, the system log can be saved **<Save>** to a local file for further processing or the system log can be cleared **<Clear>** or it can be refreshed **<Refresh>** to get the most updated information. When the system is powered down, the system log will disappear if not saved to a local file.



WL-351/368 Statistics

Shows the counters of packets sent and received on WAN, LAN & WLAN.

Vizard Wireless Sett	ings Firewall Advanced Settin	gs Toolbox	Choose your l
tatus OHCP Server	Device Status Thternet St	atus OHCP Status Log Statistics	
age shows the packet	counters for transmission and rece	ption regarding to networks.	
and the second second	Sent Packets	22	
Wireless	Received Packets	2208	
	Sent Packets	421	
Ethernet	LAN : Received Packets	398	
	Sent Packets	0	
Ethernet	WAN : Received Packets	0	
esh			

10 Configuration Wizard

Click **Wizard** to configure the router. The Setup wizard will now be displayed; check that the modem is connected and click **Next.**



Select your country from the Country list. Select your internet provider. Click $\ensuremath{\textbf{Next.}}$

BOON ROUTER	SITECOM
Status Wizard Wireless Settings Firewall Advanced Settings Toolbox	Choose your language 💌
Select your country and ISP	
Country : Netherlands 💌	
Service : Selecteer uw provider	
Selecters un provider ADSL Provider (elle modem types m.u.v. Speechouch Home modem) ADSL Provider met Speechouch Home modem Kabel Provider met gebruikersnaam en wachtwoord) Kabel Provider met gebruikersnaam en wachtwoord Andere Provider (Handmutig Confoureren)	Previous Next

Depending on the chosen provider, you may need to enter your user name and password, MAC address or hostname in the following window. After you have entered the correct information, click **Next**.

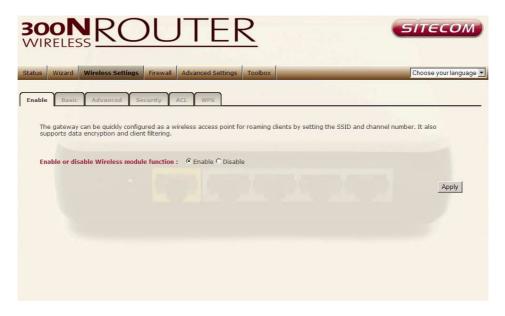


Click $\ensuremath{\textbf{APPLY}}$ to complete the configuration.

11 Wireless Settings

You can set parameters that are used for the wireless stations to connect to this router. The parameters include Mode, ESSID, Channel Number and Associated Client.

Wireless Function



Enable or Disable Wireless function here. Click **Apply** and wait for module to be ready & loaded.

Basic Settings



Mode Allows you to set AP or WDS mode.

Band Allows you to set the AP fixed at 802.11b or 802.11g mode. You can also select B+G mode to allow 80211b and 802.11g clients at the same time. **Enable SSID #** Allows you to enable up to four SSIDs for this router.

SSID This is the name of the wireless signal which is broadcasted. All the devices in the same wireless LAN should have the same ESSID.

Channel The channel used by the wireless LAN. All devices in the same wireless LAN should use the same channel.



Advanced Settings

This tab allows you to set the advanced wireless options. The options included are Authentication Type, Fragment Threshold, RTS Threshold, Beacon Interval, and Preamble Type. You should not change these parameters unless you know what effect the changes will have on the router.

WIRELESS GIGA	BIT ROUTER XR	SITECOM
Status Wizard Wireless Settings	Firewall Advanced Settings Toolbox	Choose your language 💌
Enable Basic Advanced Se	curity ACL WPS	
These settings are only for more te be changed unless you know what	chnically advanced users who have a sufficient knowledge about wireless LAN. T effect the changes will have on your Broadband router.	hese settings should not
Authentication Type :	Open System C Shared Key C Auto	
Fragment Threshold :	2346 (256-2346)	
RTS Threshold :	2347 (1-2347)	
Beacon Interval :	100 (20-1024 ms)	
DTIM Period :	1 (1-255)	
Data Rate :	Auto 💌	
N Data Rate :	Auto	
Channel Bandwidth :	• Auto 20/40 MHZ C 20 MHZ	
Preamble Type :	C Long Preamble . Short Preamble	
CTS Protection :	€ Auto C Always C None	
Tx Power :	100 % 💌	
		Apply Cancel

Authentication Type There are two authentication types: "Open System" and "Shared Key". When you select "Open System", wireless stations can associate with this wireless router without WEP encryption. When you select "Shared Key", you should also setup a WEP key in the "Encryption" page. After this has been done, make sure the wireless clients that you want to connect to the device are also setup with the same encryption key.

Fragment Threshold "Fragment Threshold" specifies the maximum size of a packet during the fragmentation of data to be transmitted. If you set this value too low, it will result in bad performance.

RTS Threshold When the packet size is smaller then the RTS threshold, the wireless router will not use the RTS/CTS mechanism to send this packet.

Beacon Interval is the interval of time that this wireless router broadcasts a beacon. A Beacon is used to synchronize the wireless network.

Data Rate The "Data Rate" is the rate that this access point uses to transmit data packets. The access point will use the highest possible selected transmission rate to transmit the data packets.

N Data Rate The "Data Rate" is the rate that this access point uses to transmit data packets for N compliant wireless nodes. Highest to lowest data rate can be fixed.

Channel Bandwidth is the range of frequencies that will be used.

Preamble Type The "Long Preamble" can provide better wireless LAN compatibility while the "Short Preamble" can provide better wireless LAN performance.

CTS Protection: It is recommended to enable the protection mechanism. This mechanism can decrease the rate of data collision between 802.11b and 802.11g wireless stations. When the protection mode is enabled, the throughput of the AP will be a little lower due to a lot of frame-network that is transmitted.

TX Power can be set to a bare minimum or maximum power.

Security

This Access Point provides complete wireless LAN security functions, included are WEP, IEEE 802.11x, IEEE 802.11x with WEP, WPA with pre-shared key and WPA with RADIUS. With these security functions, you can prevent your wireless LAN from illegal access. Please make sure your wireless stations use the same security function, and are setup with the same security key.

SSID Selection Here you choose the SSID for which you wish to set the security.

Broadcast ESSID If you enabled "Broadcast ESSID", every wireless station located within the coverage of this access point can discover this access point easily. If you are building a public wireless network, enabling this feature is recommended. Disabling "Broadcast ESSID" can provide better security.

WMM WiFi Multi Media if enabled supports QoS for experiencing better audio, video and voice in applications.



Disable

When you choose to disable encryption, it is very insecure to operate the WL-351/368.

s page allows yo ur wireless netw		ity. Turn on WEP or WPA by using E	ncryption Keys could prevent any unauthorized access to
in whicheas freew	_		
	Encryption : Disable	_	
Enable 802.1	x Authentication		
			Apply Canc

Enable 802.1x Auth

IEEE 802.1x is an authentication protocol. Every user must use a valid account to login to this Access Point before accessing the wireless LAN. The authentication is processed by a RADIUS server. This mode only authenticates users by IEEE 802.1x, but it does not encrypt the data during communication

RADIUS Server IP Address :	
RADIUS Server Port : 1812	
RADIUS Server Password :	
	Apply Can

WEP

When you select 64-bit or 128-bit WEP key, you have to enter WEP keys to encrypt data. You can generate the key by yourself and enter it. You can enter four WEP keys and select one of them as a default key. Then the router can receive any packets encrypted by one of the four keys.

Encryption :	WEP
Key Length :	64-bit 💌
Кеу Туре :	ASCII (5 characters)
Default Key :	Key 1 💌
Encryption Key 1 :	
Encryption Key 2 :	
Encryption Key 3 :	
Encryption Key 4 :	

Key Length You can select the WEP key length for encryption, 64-bit or 128bit. The larger the key will be the higher level of security is used, but the throughput will be lower.

Key Format You may select ASCII Characters (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key.

Key1 - Key4 The WEP keys are used to encrypt data transmitted in the wireless network. Use the following rules to setup a WEP key on the device. 64-bit WEP: input 10-digits Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII character as the encryption keys. 128-bit WEP: input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 13-digit ASCII characters as the encryption keys.

Click <Apply> at the bottom of the screen to save the above configurations. You can now configure other sections by choosing Continue, or choose Apply to apply the settings and reboot the device.

WPA Pre-shared Key

Wi-Fi Protected Access (WPA) is an advanced security standard. You can use a pre-shared key to authenticate wireless stations and encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently. So the encryption key is not easy to be cracked by hackers. This is the best security available.



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 CCMP (**AES**) to change the encryption key frequently. Press **Apply** button when you are done.

WPA T	vpe: • WPA(TKIP) C WPA2(AES) C WPA2 Mixed
RADIUS Server IP Add	ress :
RADIUS Server	Port: 1812
RADIUS Server Passy	ord :

ACL

This wireless router supports MAC Address Control, which prevents unauthorized clients from accessing your wireless network.

BOON ROUTER	51	тесом
Status Wizard Wireless Settings Firewall Advanced Settings Toolbox	Cho	oose your language 💌
Enable Basic Advanced Security ACL WPS		<u></u>
For security reason, the Access Point features MAC Address Filtering which only a Access Point.	lows authorized MAC Addresses to associate w	ith the
MAC Address Filtering Table		-
NO. MAC address	Comment	Select
Delete Selected Delete All Reset		
Enable Wireless Access Control		
New: MAC address : Comme	Add Res	set
	Арр	Oly Cancel

Enable wireless access control Enables the wireless access control function

Adding an address into the list Enter the "MAC Address" and "Comment" of the wireless station to be added and then click "Add". The wireless station will now be added into the "Current Access Control List" below. If you are having any difficulties filling in the fields, just click "Clear" and both "MAC Address" and "Comment" fields will be cleared.

Remove an address from the list If you want to remove a MAC address from the "Current Access Control List ", select the MAC address that you want to remove in the list and then click "Delete Selected". If you want to remove all the MAC addresses from the list, just click the "Delete All" button. Click "Reset" will clear your current selections.

Click <Apply> at the bottom of the screen to save the above configurations. You can now configure other sections by choosing Continue, or choose Apply to apply the settings and reboot the device.

WPS

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

The wireless router supports two types of WPS: WPS via Push Button and WPS via PIN code. If you want to use the Push Button, you have to push a specific button on the wireless client or in the utility of the wireless client to start the WPS mode, and switch the wireless router to WPS mode. You can simply push the WPS button of the wireless router, or click the 'Start to Process' button in the web configuration interface. If you want to use the PIN code, you have to know the PIN code of the wireless client and switch it to WPS mode, then fill-in the PIN code of the wireless client through the web configuration interface of the wireless client through the web configuration interface of the wireless client through the web configuration interface of the wireless router.

NIRELESS RC	DUTER	SITECOM
tatus Wizard Wireless Settings	Firewall Advanced Settings Toolbox	Choose your language 💌
Enable Basic Advanced Se	curity ACL WPS	
WPS :	₩ Enable	
Wi-Fi Protected Setup Inf		
WPS Current Status :	unConfigured	
Self Pin Code :	91750488	
SSID :	Sitecom8C0008	
Authentication Mode :	Disable	
Passphrase Key :		
WPS Via Push Button :	Start to Process	
	Start to Process	

WPS Check the box to enable WPS function and uncheck it to disable the WPS function.

WPS Current Status If the wireless security (encryption) function of this wireless router is properly set, you'll see a 'Configured' message here. Otherwise, you'll see 'UnConfigured'.

Self Pin Code This is the WPS PIN code of the wireless router. You may need this information when connecting to other WPS-enabled wireless devices.

SSID This is the network broadcast name (SSID) of the router.

Authentication Mode It shows the active authentication mode for the wireless connection.

Passphrase Key It shows the passphrase key that is randomly generated by the wireless router during the WPS process. You may need this information when using a device which doesn't support WPS.

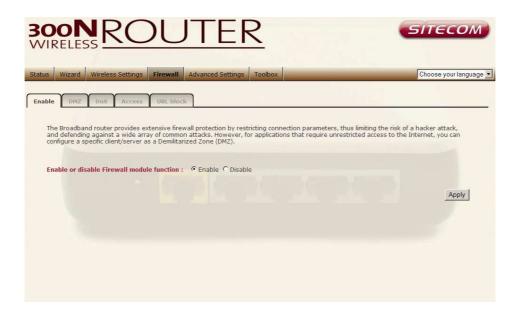
WPS via Push Button Press the button to start the WPS process. The router will wait for the WPS request from the wireless devices within 2 minutes.

WPS via PIN You can fill-in the PIN code of the wireless device and press the button to start the WPS process. The router will wait for the WPS request from the wireless device within 2 minutes.

12 Firewall Settings

The Broadband router provides extensive firewall protection by restricting connection parameters, thus limiting the risk of hacker attacks, and defending against a wide array of common Internet attacks. However, for applications that require unrestricted access to the Internet, you can configure a specific client/server as a Demilitarized Zone (DMZ).

Note: To enable the Firewall settings select Enable and click Apply



DMZ

If you have a client PC that cannot run an Internet application (e.g. Games) properly from behind the NAT firewall, then you can open up the firewall restrictions to unrestricted two-way Internet access by defining a DMZ Host. The DMZ function allows you to re-direct all packets going to your WAN port IP address to a particular IP address in your LAN. The difference between the virtual server and the DMZ function is that the virtual server re-directs a particular service/Internet application (e.g. FTP, websites) to a particular LAN client/server, whereas DMZ re-directs all packets (regardless of services) going to your WAN IP address to a particular LAN client/server.

WIRELESS ROUTER	SITECOM
Status Wizard Wireless Settings Firewall Advanced Settings Toolbox	Choose your language 💌
Enable DM2 Do5 Access URL block If you have a local client PC that cannot run an Internet application properly from behi Internet access for this client by defining a Virtual DMZ Host.	nd the NAT firewall, you can open unrestricted two-way
Enable DMZ	
Public IP Address C Dynamic IP Session 1 C Static IP Add Reset	Client PC IP Address
DMZ table: NO. Public IP Address	Client PC IP Address Select
Delete Selected Delete All Reset	Apply Cancel

Enable DMZ Enable/disable DMZ

Public IP Address The IP address of the WAN port or any other Public IP addresses given to you by your ISP

Client PC IP Address Fill-in the IP address of a particular host in your LAN that will receive all the packets originally going to the WAN port/Public IP address above.

Click **<Apply>** at the bottom of the screen to save the above configurations.

Denial of Service (DoS)

The Broadband router's firewall can block common hacker attacks, including Denial of Service, Ping of Death, Port Scan and Sync Flood. If Internet attacks occur the router can log the events.

us Wizard Wireless Se	ettings Firewall Advanced Settings Toolbox	Choose your langua
ble DMZ DoS /	Access URL block	
The firewall can block com	non hacker attacks, including DoS, Discard Ping from WAN and Port Sc	an.
Denial of Service fe	eatures	
Ping of	Death :	
Discard Ping o	n WAN : 🔽	
Po	rt Scan : 🔽	
Syn	c Flood : 🔽	
	Advanced Settings	
		Apply Cancel

Ping of Death Protections from Ping of Death attack

Discard Ping From WAN The router's WAN port will not respond to any Ping requests

Port Scan Protects the router from Port Scans.

Sync Flood Protects the router from Sync Flood attack.

Access

You can restrict users from accessing certain Internet applications/services (e.g. Internet websites, email, FTP etc.), Access Control allows users to define the traffic type permitted in your LAN. You can control which PC client can have access to these services.

	SITECOM
tus Wizard Wireless Settings Firewall Advanced Settings Toolbox	Choose your language
able DMZ DoS Access URL block	
Access Control allows users to define the traffic type permitted or not permitted in your has access to. If both MAC filtering and IP filtering are enabled, the MAC filtering table will be checked	
Enable MAC filtering © Deny C Allow	
Client PC MAC Address	Comment
Add Reset MAC Filtering table:	
NO. Client PC MAC Address	Comment Select
Delete Selected Delete All Reset	
Enable IP Filtering Table (up to 20 computers) • Deny C Allow	
NO. PC Description PC IP Address Client Service Protocol	Port range Select
Add Delete Selected Delete All	
	Apply Cancel

Deny If you select "Deny" then all clients will be allowed to access Internet accept for the clients in the list below.

Allow If you select "Allow" then all clients will be denied to access Internet accept for the PCs in the list below.

Filter client PCs by IP Fill in "IP Filtering Table" to filter PC clients by IP.

Add PC You can click Add PC to add an access control rule for users by IP addresses.

Remove PC If you want to remove some PCs from the "IP Filtering Table", select the PC you want to remove in the table and then click "Delete Selected". If you want to remove all PCs from the table, just click the "Delete All" button.

Filter client PC by MAC Check "Enable MAC Filtering" to enable MAC Filtering.

Add PC Fill in "Client PC MAC Address" and "Comment" of the PC that is allowed to access the Internet, and then click "Add". If you find any typo before adding it and want to retype again, just click "Reset" and the fields will be cleared.

Remove PC If you want to remove some PC from the "MAC Filtering Table", select the PC you want to remove in the table and then click "Delete Selected". If you want to remove all PCs from the table, just click the "Delete All" button. If you want to clear the selection and re-select again, just click "Reset".

Click **<Apply>** at the bottom of the screen to save the above configuration.

URL block

You can block access to some Web sites from particular PCs by entering a full URL address or just keywords of the Web site.

WIRELESS ROUTER	SITECOM
Status Wizard Wireless Settings Firewall Advanced Settings Toolbox	Choose your language 💌
Enable DMZ DoS Access URL block	
You can block access to certain Web sites for a particular PC by entering either a full URL address or just	st a keyword of the Web site
Enable URL Blocking URL/keyword :	
Add Reset	
NO. URL/keyword	Select
Delete Selected Delete All Reset	Apply Cancel
	Apply Cancel

Enable URL Blocking Enable/disable URL Blocking

Add URL Keyword Fill in "URL/Keyword" and then click "Add". You can enter the full URL address or the keyword of the web site you want to block.

Remove URL Keyword If you want to remove some URL keywords from the "Current URL Blocking Table", select the URL keyword you want to remove in the table and then click "Delete Selected". If you want remove all URL keywords from the table, just click "Delete All" button. If you want to clear the selection and re-select again, just click "Reset".

Click **<Apply>** at the bottom of the screen to save the above configurations

13 Advanced Settings

Network Address Translation (NAT) allows multiple users at your local site to access the Internet through a single Public IP Address or multiple Public IP Addresses. NAT provides Firewall protection from hacker attacks and has the flexibility to allow you to map Private IP Addresses to Public IP Addresses for key services such as Websites and FTP. Select Disable to disable the NAT function.



Hardware accelerator boosts network performance. Enable this feature to reach (internet)speeds up to 400Mbps. (Note: to achieve optimal results, the QOS and Bandwidth control features will be disabled.)

Port Forwarding

Port Forwarding allows you to re-direct a particular range of service port numbers (from the Internet/WAN Port) to a particular LAN IP address. It helps you to host servers behind the router NAT firewall.

Wizard Wireless Settings Firew	Advanced Settings Tools	Dox	Choose your la
able Port forwarding Virtual :	Server Special Applications	Application Layer Gateway	uPnP Quality of Service
ries in this table allow you to automat y necessary if you wish to host some s	ically redirect common network se sort of server like a web server or	ervices to a specific PC behind th mail server on the local networ	ne NAT firewall. These settings are
Enable Port Forwarding			
Local IP	Туре	Port range	Comment
d Reset	Both 💌		
o. Local IP	le: Type	Port range	Comment Sel
irrent Port Forwarding Tab		Port range	Comment Sel

Enable Port Forwarding Enable Port Forwarding

Private IP This is the private IP of the server behind the NAT firewall.

Type This is the protocol type to be forwarded. You can choose to forward "TCP" or "UDP" packets only, or select "both" to forward both "TCP" and "UDP" packets.

Port Range The range of ports to be forward to the private IP.

Comment description of this setting.

Add Port Forwarding Fill in the "Private IP", "Type", "Port Range" and "Comment" of the setting to be added and then click "Add". Then this Port Forwarding setting will be added into the "Current Port Forwarding Table" below.

Remove Port Forwarding If you want to remove a Port Forwarding setting from the "Current Port Forwarding Table", select the Port Forwarding setting that you want to remove in the table and then click "Delete Selected". If you want to remove all Port Forwarding settings from the table, just click "Delete All" button. Click "Reset" will clear your current selections.

Virtual Server

Use the Virtual Server function when you want different servers/clients in your LAN to handle different service/Internet application type (e.g. Email, FTP, Web server etc.) from the Internet. Computers use numbers called port numbers to recognize a particular service/Internet application type. The Virtual Server allows you to re-direct a particular service port number (from the Internet/WAN Port) to a particular LAN private IP address and its service port number.

DON RC	DUTE	<u>=R</u>		-	ίτεςο
Wizard Wireless Settings	Firewall Advanced Se	ettings Toolbox			Choose your lang
Enable Port forwarding	Virtual Server Special	Applications Appli	ication Layer Gateway	uPnP Qual	lity of Service
'ou can configure the router as a he requested service (TCP/UDP)					
at one of your local PCs).	pole number, ene roacer m		in the request to the t	appropriate interne	
Enable Virtual Server	Local Port	Туре	Public Port	Com	ment
		Both 💌			
Add Reset					
Current Virtual Server 1	able:				
			Dublis David	and a second	Select
NO. Local IP	Local Port	Туре	Public Port	Comment	Deneer
NO. Local IP Delete Selected Delete		Туре	PUBLIC POR		Apply Cancel
		Туре	Public Port		

Enable Virtual Server Enable Virtual Server.

Private IP This is the LAN client/host IP address that the Public Port number packet will be sent to.

Private Port This is the port number (of the above Private IP host) that the below **Public Port** number will be changed to when the packet enters your **LAN** (to the LAN Server/Client IP)

Type Select the port number protocol type (TCP, UDP or both). If you are unsure, then leave it to the default "both" setting. Public Port Enter the service (service/Internet application) port number from the Internet that will be re-directed to the above Private IP address host in your LAN

Comment The description of this setting.

Add Virtual Server Fill in the "Private IP", "Private Port", "Type", "Public Port" and "Comment" of the setting to be added and then click "Add". Then this Virtual Server setting will be added into the "Current Virtual Server Table" below.

Remove Virtual Server If you want to remove Virtual Server settings from the "Current Virtual Server Table", select the Virtual Server settings you want to remove in the table and then click "Delete Selected". If you want to remove all Virtual Server settings from the table, just click the "Delete All" button. Click "Reset" will clear your current selections.

Click **<Apply>** at the bottom of the screen to save the above configurations.

Special Applications

Some applications require multiple connections, such as Internet games, video Conferencing, Internet telephony and others. In this section you can configure the router to support multiple connections for these types of applications.

Enable Trigger Port Enable the Special Application function.

Trigger Port This is the out going (Outbound) range of port numbers for this particular application.

Trigger Type Select whether the outbound port protocol is "TCP", "UDP" or both.

Public Port Enter the In-coming (Inbound) port or port range for this type of application (e.g. 2300-2400, 47624)

Wizard	Wireless Settin	gs Firewall Ad	vanced Settings Tool	ox	-	Choose your lan
able	Port forwarding	Virtual Server	Special Applications	Application Layer Gateway	uPnP	Quality of Service
			port to open them for inb	"Trigger Port" field,select the pr ound traffic.	otocoi typ	e as TCP or UDP, then
ter the pi	ublic ports associat • Trigger Port	ed with the trigger		ound traffic.		e as TCP or UDP, then
Enable	ublic ports associat		port to open them for inb	ound traffic.		
ter the pr Enable Tric	ublic ports associat • Trigger Port	ed with the trigger Trigger type Both 💌	port to open them for inb	rt Public typ		
Enable Trig	ublic ports associat Trigger Port ger port	ed with the trigger Trigger type Both 💌	port to open them for inb Public Po	rt Public typ		
Enable Trig opular ag	blic ports associat	Trigger type Both ct an application	port to open them for inb Public Po	rt Public typ		

Public Type Select the Inbound port protocol type: "TCP", "UDP" or both **Comment** The description of this setting.

Popular applications This section lists the more popular applications that require multiple connections. Select an application from the Popular

Applications selection. Once you have selected an application, select a location (1-10) in the Copy to selection box and then click the Copy to button. This will automatically list the Public Ports required for this popular application in the location (1-10) you specified.

Add Special Application Fill in the "Trigger Port", "Trigger Type", "Public Port", "Public Type", "Public Port" and "Comment" of the setting to be added and then click "Add". The Special Application setting will be added into the "Current Trigger-Port Table" below. If you happen to make a mistake, just click "Clear" and the fields will be cleared.

Remove If you want to remove Special Application settings from the "Current Trigger-Port Table", select the Special Application settings you want to remove in the table and then click "Delete Selected". If you want remove all Special Application settings from the table, just click the "Delete All" button. Click "Reset" will clear your current selections.

ALG

You can select applications that need "Application Layer Gateway" support.

NIRELES		Firewall Advanced Settings Toolbox
Enable F	Port forwarding Vin	tual Server Special Applications Application Layer Gateway uPnP Quality of Service
		pport to function under NAT. Please select the applications which you are using.
Enable	Name	Select
Г	H323	Support for H323/netmeeting.
Г	MMS	Support for Microsoft Streaming Media Services protocol.
Г	TETP	Support for TFTP.
П	Egg	Support for eggdrop bot networks.
	IRC	Allows DCC to work though NAT and connection tracking.
	Amanda	Support for Amanda backup tool protocol.
	Quake3	Support for Quake III Arena connection tracking and nat.
Г Г	Talk	Allows netfilter to track talk connections.
	Talk IPsec	Allows netfilter to track talk connections. Support for IPsec passthrough

Enable select enable "Application Layer Gateway", then the router will let the selected application correctly pass through the NAT gateway.

UPNP

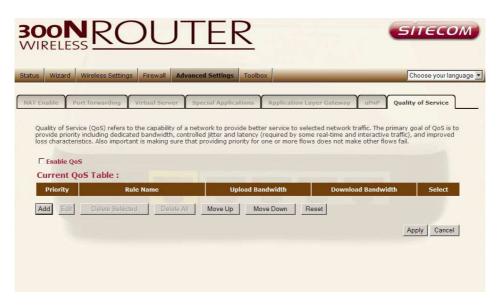
With UPnP, all PCs in you Intranet will discover this router automatically, so you don't have to configure your PC and it can easily access the Internet through this router.

Wizar	rd Wireless Settin	ngs Firewall Ad	dvanced Settings Toolb	ox	Cho	oose your lar
able	Port forwarding	Virtual Server	Special Applications	Application Layer Gateway	uPnP Quality o	of Service
ide rang pabilitie	e of vendors. With t s of other devices a	JPnP, a device can o Il automatically. Dev	lynamically join a network	" networking, and automatic disc obtain an IP address and learn a municate with each other directl	about the presence a	device from and
de rang pabilitie	e of vendors. With l	JPnP, a device can o Il automatically. Dev	lynamically join a network	obtain an IP address and learn a	about the presence a	device from and
de rang pabilitie	e of vendors. With t s of other devices a	JPnP, a device can o Il automatically. Dev	lynamically join a network	obtain an IP address and learn a	about the presence a y.	and
de rang pabilitie	e of vendors. With t s of other devices a	JPnP, a device can o Il automatically. Dev	lynamically join a network	obtain an IP address and learn a	about the presence a	and
de rang	e of vendors. With t s of other devices a	JPnP, a device can o Il automatically. Dev	lynamically join a network	obtain an IP address and learn a	about the presence a y.	and
e rang abilitie	e of vendors. With t s of other devices a	JPnP, a device can o Il automatically. Dev	lynamically join a network	obtain an IP address and learn a	about the presence a y.	and

UPnP Feature You can enable or Disable the UPnP feature here. After you enable the UPnP feature, all client systems that support UPnP, like Windows XP, can discover this router automatically and access the Internet through this router without having to configure anything. The NAT Traversal function provided by UPnP can let applications that support UPnP connect to the internet without having to configure the virtual server sections.

QoS

QoS can let you classify Internet application traffic by source/destination IP address and port number. You can assign priority for each type of application and reserve bandwidth for it. The packets of applications with higher priority will always go first. Lower priority applications will get bandwidth after higher priority applications get enough bandwidth. This can let you have a better experience in using critical real time services like Internet phone, video conference ...etc. All the applications not specified by you are classified as rule name "Others". The rule with a smaller priority number has a higher priority; the rule with a larger priority number has a lower priority. You can adjust the priority of the rules by moving them up or down.



Enable/Disable QoS You can check "Enable QoS" to enable QoS functionality for the WAN port.

Add a QoS rule into the table Click "Add" then enter a form of the QoS rule. Click "Apply" after filling out the form the rule will be added into the table.

Remove QoS rules from the table If you want to remove QoS rules from the table, select the QoS rules you want to remove in the table and then click "Delete Selected". If you want remove all QoS rules from the table, just click the "Delete All" button. Clicking "Reset" will clear your current selections.

Edit a QoS rule Select the rule you want to edit and click "Edit", then enter the detail form of the QoS rule. Click "**Apply**" after editing the form and the rule will be saved.

Adjust QoS rule priority You can select the rule and click "Move Up" to make its priority higher. You also can select the rule and click "Move Down" to make its priority lower.

14 TOOLBOX Settings

Password change options

You can change the password required to log into the broadband router's system web-based management. By default, the password is: admin. Passwords can contain 0 to 12 alphanumeric characters, and are case sensitive.

WIRELESS ROUTER	SITECOM
Status Wizard Wireless Settings Firewall Advanced Settings Toolbox	Choose your language 💌
Password Timezone Remote Firmware Back-up Reset DDNS	
You can change the password which is required to log on to the router. By default, the password is admin. Pa alphanumeric characters, and are case sensitive.	isswords can contain 0 to 30
Current Password :	
New Password :	
the second se	Apply Cancel

Current Password Fill in the current password to allow changing to a new password.

New Password Enter your new password.

Confirmed Password Enter your new password again for verification purposes.

Click **<Apply>** at the bottom of the screen to save the above configurations

Time Zone

The Time Zone allows your router to base its time on the settings configured here, which will affect functions such as Log entries and Firewall settings.

WIRELESS RC	UTER	SITECOM
Status Wizard Wireless Settings	Firewall Advanced Settings Toolbox	Choose your language 💌
Password Timezone Remote	Firmware Back-up Reset DDNS	
Set the time zone of the Broadband	router. This information is used for log entries and firewall settings.	
Set Time Zone :	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London 💌	
Time Server Address :	europe.pool.ntp.org	
Daylight Saving :	Enable From January Y 1 Y To January Y 1 Y	Apply Cancel

Set Time Zone Select the time zone of the country you are currently in. The router will set its time based on your selection.

Time Server Address You can set an NTP server address.

Enable Daylight Savings The router can also take Daylight savings into account. If you wish to use this function, you must check/tick the enable box to enable your daylight saving configuration (below).

Start Daylight Savings Time Select the period in which you wish to start daylight Savings Time

End Daylight Savings Time Select the period in which you wish to end daylight Savings Time

Click **<Apply>** at the bottom of the screen to save the above configurations

Remote Management

The remote management function allows you to designate a host in the Internet the ability to configure the Broadband router from a remote site. Enter the designated host IP Address in the Host IP Address field.

Wizard Wireless Settings Firewall Advanced Settings	Toolbox	Choose your lan
mitara wineless secongs priemain worarited secongs	TOUDOX	onoose you had
ord Timezone Remote Firmware Back-up Re	DDNS	
e remote management function allows you to designate a host fr	on the Internet to have management/conf	investion second to the pouter
a remote management function allows you to designate a nost m m a remote site. Enter the designated host IP Address in the Hos	om the internet to have management/con at IP Address field.	iguration access to the router
Host Address	Port	Enable
Host Address	B080	Enable
Host Address		F
Host Address		
Host Address		F
Host Address		F

Host Address This is the IP address of the host in the Internet that will have management/configuration access to the Broadband router from a remote site. If the Host Address is left 0.0.0.0 this means anyone can access the router's web-based configuration from a remote location, providing they know the password.

Port The port number of the remote management web interface.

Enabled Select "**Enabled**" to enable the remote management function.

Click **<Apply>** at the bottom of the screen to save the above configurations.

Firmware Upgrade

This page allows you to upgrade the router's firmware.

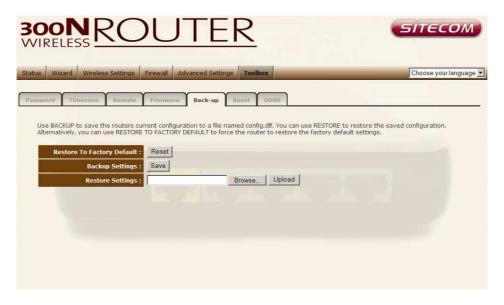


Firmware Upgrade This tool allows you to upgrade the Broadband router's system firmware. To upgrade the firmware of your Broadband router, you need to download the firmware file to your local hard disk, and enter that file name and path in the appropriate field on this page. You can also use the Browse button to find the firmware file on your PC.

Once you've selected the new firmware file, click **<Apply>** at the bottom of the screen to start the upgrade process

Backup Settings

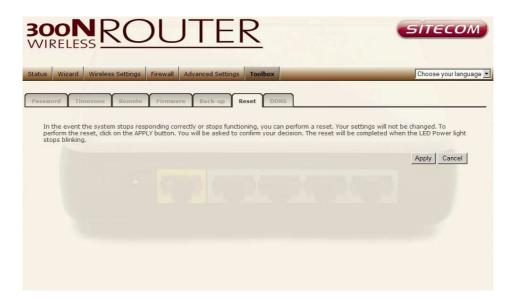
The Backup screen allows you to save (Backup) the router's current configuration settings. When you save the configuration setting (Backup) you can re-load the saved configuration into the router through the Restore selection. If extreme problems occur you can use the Restore to Factory Defaults selection, this will set all configurations to its original default settings (e.g. when you first purchased the router).



Use the "Backup" tool to save the Broadband router current configuration to a file named "**config.bin**" on your PC. You can then use the "Restore" tool to restore the saved configuration to the Broadband router. Alternatively, you can use the "Restore to Factory Defaults" tool to force the Broadband router to perform a power reset and restore the original factory settings.

Reset

You can reset the router's system should any problem exist. The reset function essentially re-boots your router's system.



DDNS

DDNS allows you to map the static domain name to a dynamic IP address. You must get an account, password and your static domain name from the DDNS service providers. This router supports DynDNS, TZO and other common DDNS service providers.

Wizard Wireless Settings	Firewall Advanced Settings Toolbox	Choose your la
Timezone Remote	Firmware Back-up Reset DDNS	
NS allows users to map a static on the DDNS service provider	omain name to a dynamic IP address. You must get an ac	count, password and your static domain name
Dynamic DNS :	C Enable C Disable	
Provider :	3322(qdns)	
Domain Name :		
Account/E-mail :		
Password/Key :		
		Apply Cance
		Apply Calice

Enable/Disable Enable or disable the DDNS function of this router **Provider** Select a DDNS service provider

Domain name Fill in your static domain name that uses DDNS

Account/E-mail The account that your DDNS service provider assigned to you

Password/Key The password you set for the DDNS service account above

Click **<Apply>** at the bottom of the screen to save the above configurations.

Parts of the firmware of the WL-351/368 Wireless Broadband router are subject to the <u>GNU</u> general public license.

Appendix A: Licensing Information

This product includes third-party software licensed under the terms of the <u>GNU General</u> <u>Public License</u>.. You can modify or redistribute this free software under the terms of the <u>GNU General Public License</u>. Please see Appendix B for the exact terms and conditions of this license.

#	Package name	Source
1	Linux v2.6.21	www.kernel.org
2	Iptables v1.3.5	www.netfilter.org/
3	Bridge-utils v1.2	bridge.sourceforge.net/
4	Busybox v1.7.5	www.busybox.net/
5	Rp-pppoe v3.8	freshmeat.net/projects/rp-pppoe/
6	Pptp-client v1.7.1	pptpclient.sourceforge.net/
7	Ppp v2.4.3	ppp.samba.org/
8	Udhcp v0.9.9-pre	udhcp.busybox.net/
9	iproute2 v2.6.16-060323	www.linux-foundation.org/en/Net:Iproute2
10	Dnsmasq v2.39	www.thekelleys.org.uk/dnsmasq/doc.html
11	Ez-ipupdate v3.0.11b8	ez-ipupdate.com/
12	Libupnp v1.6.0	upnp.sourceforge.net/
13	Wireless-tools v28	RaLink SDK 3.1.0.0
14	U-boot v1.1.3	RaLink SDK 3.1.0.0
15	gcc-3.3.6	RaLink SDK 3.1.0.0
16	Uclibc-0.9.29	RaLink SDK 3.1.0.0

Specifically, the following part of this product is subject to the GNU GPL:

Availability of source code

Sitecom Europe BV has made available the full source code of the GPL licensed software, including any scripts to control the compilation and installation of the object code in the driver section of this product.

No Warranty

The free software included in this product is distributed in the hope that it will be useful, but WITHOUT ANY LIABILITY OF OR ANY WARRANTY FROM THE LICENSOR.

Appendix B: GNU GENERAL PUBLIC LICENSE

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Preamble

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