



WL-303/306/312

Wireless Broadband router

**(802.11bgn draft 2.0)**



# User Manual

Revision:2.5

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# Introduction

Congratulations on your purchase of WL-303/WL-306/WL-312 Wireless Network Broadband Router. WL-303/WL-306/WL-312 is compliant with draft 802.11n v 2.0 up to 6 times faster than standard 802.11g based routers while still being compatible with 802.11g & 802.11b gadgets. WL-303/WL-306/WL-312 is not only a Wireless Access Point, but also doubles as a 4-port full-duplex Switch that connects your wired-Ethernet devices together at.

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. Robust RF signal travels farther, eliminates dead spots and extends network range. For data protection and privacy, WL-303/WL-306/WL-312 encodes all wireless transmissions with WEP, WPA, and WPA2 encryption.

With inbuilt DHCP Server & powerful SPI firewall WL-303/WL-306/WL-312 protects your computers against intruders and most known Internet attacks but provides safe VPN pass-through. With incredible speed and QoS function of 802.11n(draft2.0), WL-303/WL-306/WL-312 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

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Features	Advantages
Incredible Data Rate up to 300Mbps**	Heavy data payloads such as MPEG video streaming
IEEE 802.11n draft 2.0 Compliant and backward compatible with 802.11b/g	Fully Interoperable with IEEE 802.11b / IEEE802.11g compliant devices with legacy protection
Four 10/100 Mbps Fast Switch Ports (Auto-Crossover)	Scalability, extend your network.
Firewall supports Virtual Server Mapping, DMZ, IP Filter, ICMP Blocking, SPI	Avoids the attacks of Hackers or Viruses from Internet
Support 802.1x authenticator, 802.11i (WPA/WPA2, AES), VPN pass-through	Provide mutual authentication (Client and dynamic encryption 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

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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. WL-303/312 Router
2. 220V~240V Power Adapter
3. 2dBi 2.4GHz Dipole Antennas x (wl-303 3 pcs, wl-312 2pcs)
4. Quick Install Guide
5. CD (User's Manual)
6. Warranty card
7. UTP cable

### 3 Product Layout

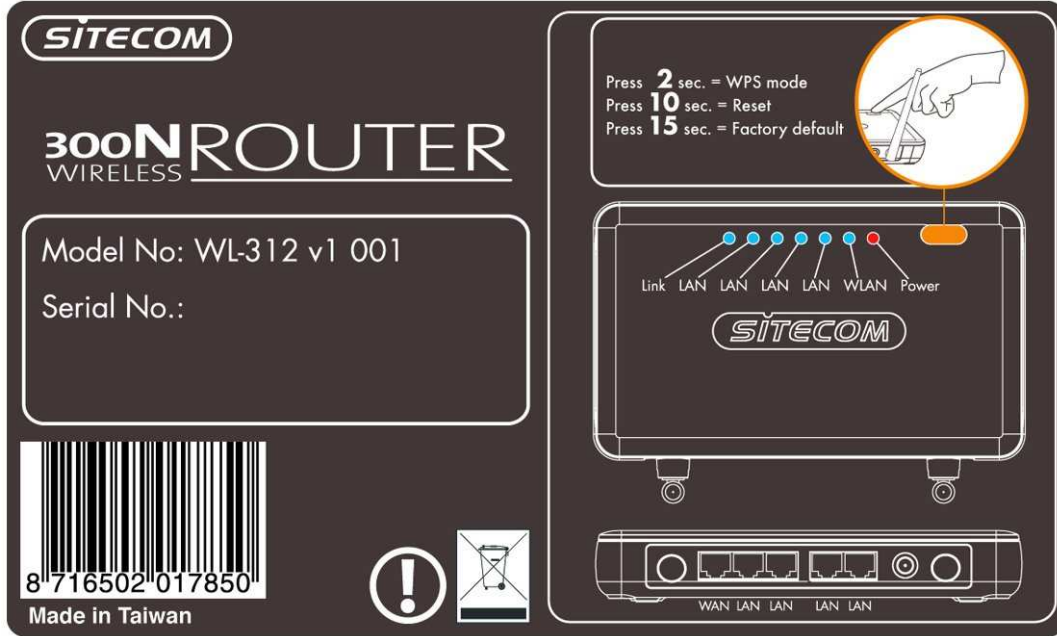
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Port	Description
WAN	Connect the cable from you ADSL/Cable modem to this port
LAN	Connect the cable from your PC's or network devices to this port
Power connector	Blinks on traffic for specific LAN PORT

## Backlabel

The backlabel describes the corresponding LED indications and port functionality



LED	Description
POWER	Lights up when powered ON. Blinks on TEST/RESET
WLAN	Lights up in Blue when WLAN is enabled. Blinks on traffic
LINK/ACTIVY	Blinks on traffic for specific LAN PORT
WPS BUTTON	Press 2 seconds for WPS mode Press 10 seconds to reset the router Press 15 Seconds to reset the router to factory defaults.

## **4 Network + System Requirements**

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To begin using the WL-303/WL-306/WL-312, 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-303/WL-306/WL-312 Placement**

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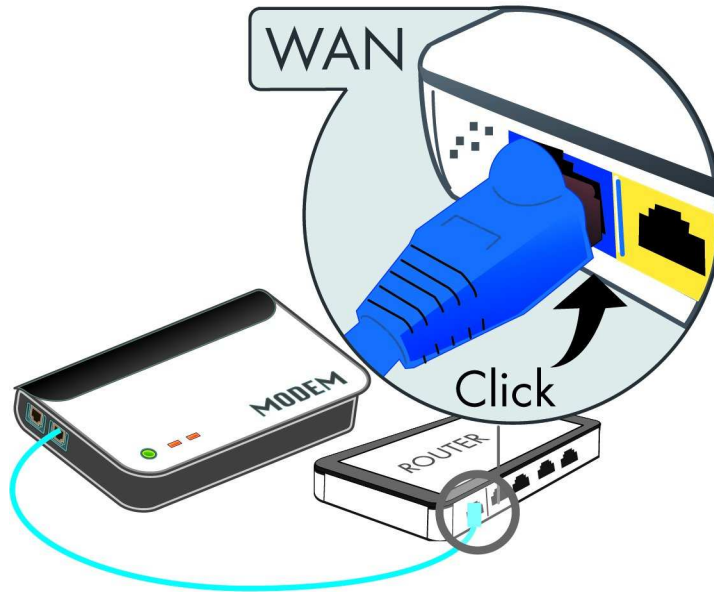
You can place WL-303/WL-306/WL-312 on a desk or other flat surface, or you can mount it on a wall. For optimal performance, place your Wireless Broadband Router in the center of your office (or your home) in a location that is away from any potential source of interference, such as a metal wall or microwave oven. This location must be close to a power connection and your ADSL/Cable modem.



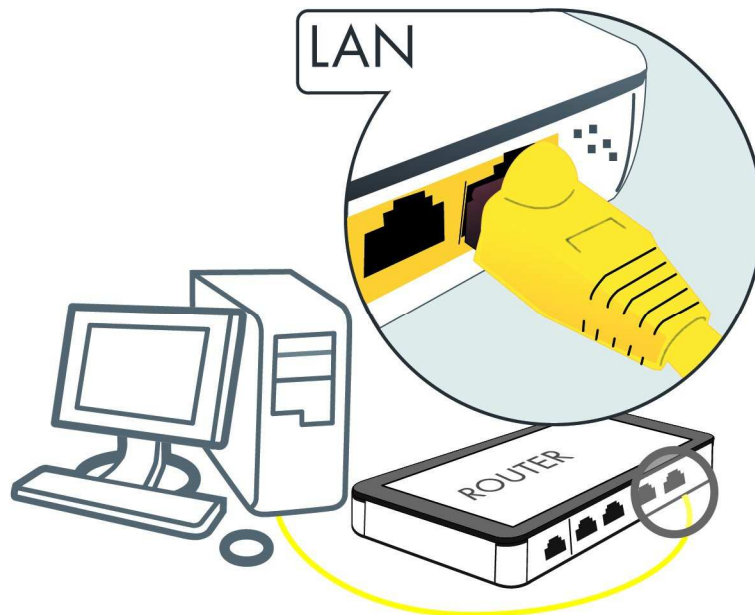
## 6 Setup LAN, WAN

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WAN connection:



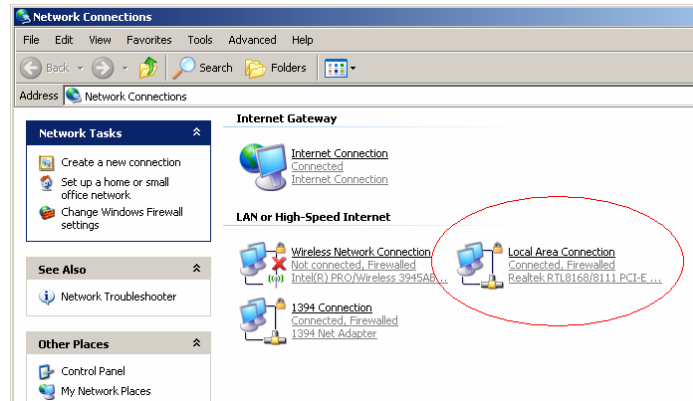
LAN connection:



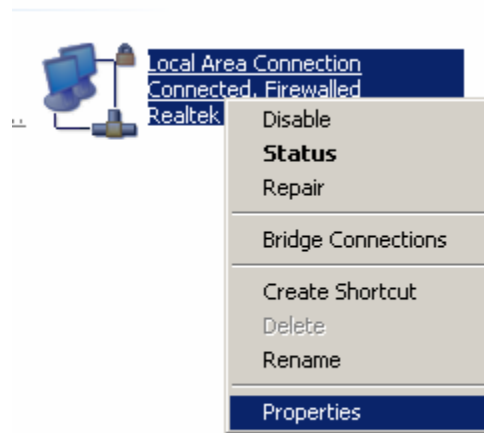
## 7 PC Network Adapter setup (*Windows XP*)

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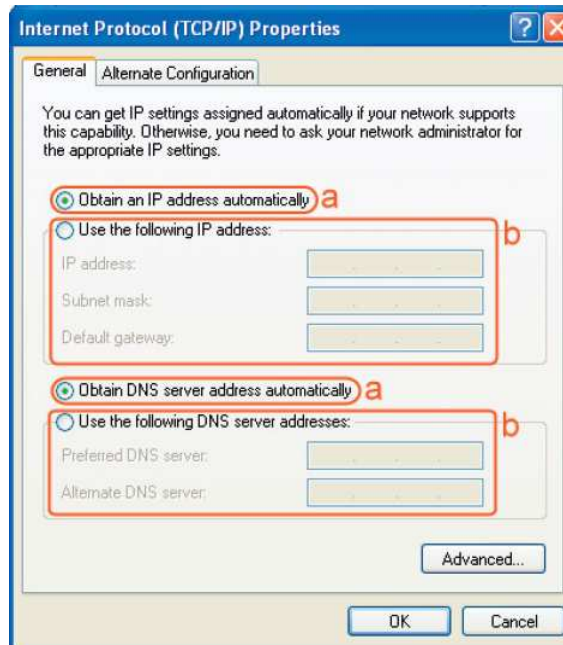
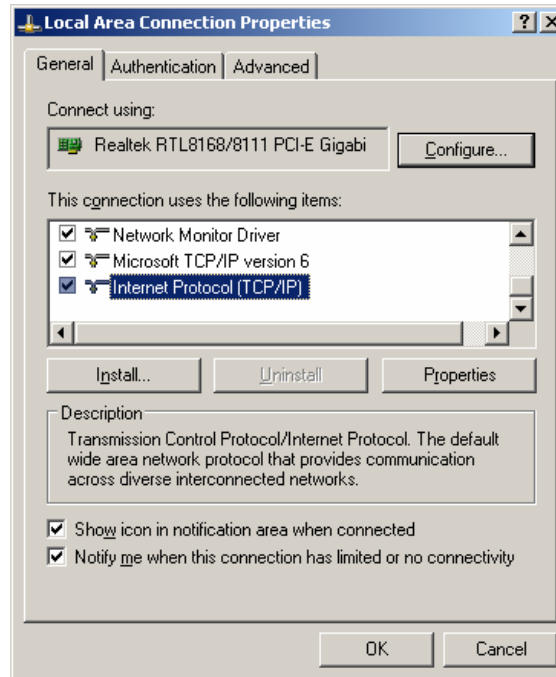
- Enter [Start Menu] → select [Control panel] → select [Network].



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



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



- Select the [General] tab.
  - a. WL-303/WL-306/WL-312 supports [DHCP] function, please select both [Obtain an IP address automatically] and [Obtain DNS server address automatically].

## 8 Bring up WL-303/WL-306/WL-312

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Connect the supplied power-adaptor to the power inlet port and connect it to a wall outlet. The WL-303/WL-306/WL-312 automatically enters the self-test phase. During self-test phase, the Power LED will blink briefly, and then will be lit continuously to indicate that this product is in normal operation.

## 9 Initial Setup WL-303/WL-306/WL-312

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### LOGIN procedure

2. Click OPEN your browser (e.g. Internet Explorer).



3. Type **http://192.168.0.1** in address bar and press [Enter]



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



5. Click **OK**.
6. You will see the home page of the WL-303/WL-306/WL-312.



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 tabs gives you the opportunity to change the IP settings of the WL-303/312.

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



The screenshot displays the configuration interface for a 300N WIRELESS ROUTER. The 'DHCP Server' tab is selected. The interface includes a navigation bar with tabs for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. Below this, there are sub-tabs for System Status, DHCP Server, Device Status, Internet Status, DHCP Status, Log, and Statistics. The main content area contains a warning message about enabling the DHCP server. The 'LAN IP' section has input fields for IP Address (192.168.0.1), IP Subnet Mask (255.255.255.0), a dropdown for 802.1d Spanning Tree (set to Disabled), a dropdown for DHCP Server (set to Enabled), and a dropdown for Lease Time (set to Forever). The 'DHCP Server' section has input fields for Start IP (192.168.0.100), End IP (192.168.0.200), and Domain Name (sitecomw312). 'Apply' and 'Cancel' buttons are located at the bottom right.

**IP address** 192.168.0.1. It is the router's LAN IP address (Your LAN clients default gateway IP address).

**IP Subnet Mask** 255.255.255.0 Specify a Subnet Mask for your LAN segment.

**802.1d 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.

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

*Note: default IP range 192.168.0.100 ↔ 192.168.0.199. 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 (sitecom\_router).

## 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



The screenshot shows the web interface for a 300N WIRELESS ROUTER. The page title is "300N WIRELESS ROUTER" with the "SITECOM" logo. The navigation menu includes "Status", "Wizard", "Wireless Settings", "Firewall", "Advanced Settings", and "Toolbox". A language selection dropdown is set to "Choose your language". The "Device Status" tab is selected, showing a summary of the current settings. The "Wireless Configuration" section includes:

Mode :	AP
ESSID :	Sitecom46DDA2
Channel :	11
Security :	Disable
Associated Clients :	0
BSSID :	00:0C:F6:46:DD:A2

The "LAN Configuration" section includes:

IP Address :	192.168.0.1
Subnet Mask :	255.255.255.0
DHCP Server :	Enabled
MAC Address :	00:0C:F6:46:DD:A2



## 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.

The screenshot displays the 'Internet Status' page of a Sitecom 300N Wireless Router. The page features a navigation menu with options like Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. Below the navigation, there are tabs for System Status, DHCP Server, Device Status, Internet Status (selected), DHCP Status, Log, and Statistics. The main content area shows the current internet connection status and related information:

Attain IP Protocol :	Dynamic IP Address
IP Address :	---
Subnet Mask :	---
Default Gateway :	---
MAC Address :	00:0C:F6:46:DD:A3
Primary DNS :	---

A 'Renew' button is located at the bottom right of the information table.

## 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.

**300N 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

This table shows the assigned IP address, MAC address and expiration time for each DHCP leased client.

IP address	MAC address	Expiration Time
192.168.0.100	00:1C:23:AD:DC:7D	Forever

Refresh

Enable Static DHCP IP

IP address	MAC address
<input type="text"/>	<input type="text"/>

Add Reset

Current Static DHCP Table:

NO.	IP address	MAC address	Select
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Delete Selected Delete All Reset

Apply Cancel

## WL-303/WL-306/WL-312 Log

View the operation **log of WL-303/WL-306/WL-312**. 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.



**300N 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 system operation information. You can see the system start up time, connection process...etc. here.

```
day 1 01:25:11 [SYSTEM]: DHCP Server, Sending ACK of 192.168.0.100
day 1 01:25:11 [SYSTEM]: DHCP Server, Sending OFFER of 192.168.0.100
day 1 00:43:21 [SYSTEM]: DHCP Server, Sending ACK of 192.168.0.100
day 1 00:43:21 [SYSTEM]: DHCP Server, Sending OFFER of 192.168.0.100
day 1 00:00:11 [SYSTEM]: DHCP Server, Sending ACK of 192.168.0.100
day 1 00:00:11 [SYSTEM]: DHCP Server, Sending OFFER of 192.168.0.100
day 1 00:00:06 [SYSTEM]: HTTP, Starting
day 1 00:00:06 [SYSTEM]: DDNS, Disabled
day 1 00:00:04 [SYSTEM]: NET, Firewall Starting
day 1 00:00:04 [SYSTEM]: NET, NAT Starting
day 1 00:00:04 [SYSTEM]: NTP, NTP Client Starting
day 1 00:00:04 [SYSTEM]: DNS, DNS Proxy Starting
day 1 00:00:04 [SYSTEM]: DHCP, DHCP Server Starting
day 1 00:00:04 [SYSTEM]: WAN, No PHY Link
day 1 00:00:04 [SYSTEM]: WAN, DHCP mode Starting
day 1 00:00:04 [SYSTEM]: WAN, DHCP mode Stopping
day 1 00:00:03 [SYSTEM]: WLAN, Channel = 11
day 1 00:00:02 [SYSTEM]: LAN, IP address=192.168.0.1
day 1 00:00:02 [SYSTEM]: LAN, Starting
day 1 00:00:02 [SYSTEM]: Start Log Message Service!
```

## WL-303/WL-306/WL-312 Statistics

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

**300N ROUTER**  
WIRELESS

**SITECOM**

Status Wizard Wireless Settings Firewall Advanced Settings Toolbox Choose your language

System Status DHCP Server Device Status Internet Status DHCP Status Log **Statistics**

This page shows the packet counters for transmission and reception regarding to networks.

<b>Wireless LAN :</b>	Sent Packets	105
	Received Packets	131365
<b>Ethernet LAN :</b>	Sent Packets	16329
	Received Packets	13458
<b>Ethernet WAN :</b>	Sent Packets	0
	Received Packets	0

[Refresh](#)

# 10 Configuration Wizard

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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 **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**.

**300N WIRELESS ROUTER** **SITECOM**

Status **Wizard** Wireless Settings Firewall Advanced Settings Toolbox Choose your language ▾

Please, enter the data which is supplied by your ISP.

Login Method :	— Select one — ▾
Username :	<input type="text"/>
Password :	<input type="password"/>
Service :	<input type="text"/>
MTU :	1492 (512<=MTU Value<=1492)
Connection Type :	Keep connection ▾ <input type="button" value="Connect"/> <input type="button" value="Disconnect"/>
Idle Time :	10 (1-1000 Minutes)

Click **APPLY** to complete the configuration.

# 11 Wireless Settings

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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

The screenshot shows the configuration interface for a SITEMCOM 300N WIRELESS ROUTER. The page title is "300N WIRELESS ROUTER" with the SITEMCOM logo. The navigation menu includes Status, Wizard, Wireless Settings (selected), Firewall, Advanced Settings, and Toolbox. There is a "Choose your language" dropdown. Below the navigation, there are tabs for Enable, Basic (selected), Advanced, Security, ACL, and WPS. A descriptive text states: "This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point." The configuration fields are: Mode (AP), Band (2.4 GHz (B+G+N)), ESSID (Sitecom46DDA2), and Channel (11). There are Apply and Cancel buttons at the bottom right.

**Mode** Allows you to set the AP to AP, Station, Bridge 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 802.11b and 802.11g clients at the same time.

**ESSID** 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 Number** The channel used by the wireless LAN. All devices in the same wireless LAN should use the same channel.

**WLAN MAC** This is the MAC address used by the Wireless interface of this AP when it is in the station mode.

**Clone MAC** Click the "Clone MAC" button will copy the MAC address of your PC,

that you are using to configure the AP, to the WLAN MAC.

**MAC address** If you want to bridge several networks together through the wireless connection, you have to set this access point to "AP Bridge-Point to Point mode", "AP Bridge-Point to Multi-Point mode" or "AP Bridge-WDS mode". You have to enter the MAC addresses of the other access points



## 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.



The screenshot shows the 'Advanced Settings' tab for wireless configuration. The interface includes a navigation bar with 'Status', 'Wizard', 'Wireless Settings', 'Firewall', 'Advanced Settings', and 'Toolbox'. Below the navigation bar are tabs for 'Enable', 'Basic', 'Advanced', 'Security', 'ACL', and 'WPS'. The 'Advanced' tab is selected. A warning message states: 'These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Broadband router.' The settings are as follows:

Authentication Type :	<input type="radio"/> Open System	<input type="radio"/> Shared Key	<input checked="" type="radio"/> Auto
Fragment Threshold :	2346	(256-2346)	
RTS Threshold :	2347	(0-2347)	
Beacon Interval :	100	(20-1024 ms)	
DTIM Period :	1	(1-10)	
Data Rate :	Auto		
N Data Rate :	Auto		
Channel Bandwidth :	<input checked="" type="radio"/> Auto 20/40 MHz	<input type="radio"/> 20 MHz	
Preamble Type :	<input type="radio"/> Long Preamble	<input checked="" type="radio"/> Short Preamble	
Broadcast ESSID :	<input checked="" type="radio"/> Enable	<input type="radio"/> Disable	
CTS Protection :	<input type="radio"/> Auto	<input type="radio"/> Always	<input type="radio"/> None
Tx Power :	100 %		
WMM :	<input checked="" type="radio"/> Enable	<input type="radio"/> Disable	

Buttons for 'Apply' and 'Cancel' are located at the bottom right of the settings area.

**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 than 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.

**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.

**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.

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

## 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.

## Disable

When you choose to disable encryption, it is very insecure to operate WL-303/WL-306/WL-312.



## 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

## 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.



The screenshot shows the configuration page for a 300N WIRELESS ROUTER. The page title is "300N WIRELESS ROUTER" and the brand "SITECOM" is visible in the top right. The navigation menu includes "Status", "Wizard", "Wireless Settings", "Firewall", "Advanced Settings", and "Toolbox". The "Wireless Settings" section is active, and the "Security" tab is selected. The page contains the following fields and options:

- Encryption: WEP (dropdown)
- Key Length: 64-bit (dropdown)
- Key Type: ASCII (5 characters) (dropdown)
- Default Key: Key 1 (dropdown)
- Encryption Key 1: (text input)
- Encryption Key 2: (text input)
- Encryption Key 3: (text input)
- Encryption Key 4: (text input)
- Enable 802.1x Authentication
- Buttons: Apply, Cancel

**Key Length** You can select the WEP key length for encryption, 64-bit or 128-bit. 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.



The screenshot displays the configuration interface for a 300N WIRELESS ROUTER. The page title is "300N WIRELESS ROUTER" with the "SITECOM" logo in the top right corner. The navigation menu includes "Status", "Wizard", "Wireless Settings", "Firewall", "Advanced Settings", and "Toolbox". A language selection dropdown is set to "Choose your language".

Under the "Wireless Settings" section, there are tabs for "Enable", "Basic", "Advanced", "Security", "ACL", and "WPS". The "Security" tab is active, and a sub-section for "WPA" is visible. The page contains the following configuration fields:

- Encryption :** A dropdown menu set to "WPA pre-shared key".
- WPA Type :** Radio buttons for "WPA(TKIP)", "WPA2(AES)", and "WPA2 Mixed".
- Pre-shared Key Type :** A dropdown menu set to "Passphrase".
- Pre-sharedKey :** An empty text input field.

At the bottom right of the configuration area, there are "Apply" and "Cancel" buttons. A note at the top of the configuration section reads: "This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network."

## 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.



The screenshot shows the configuration interface for a 300N WIRELESS ROUTER. The page title is "300N WIRELESS ROUTER" with the SITECOM logo. The navigation menu includes Status, Wizard, Wireless Settings (selected), Firewall, Advanced Settings, and Toolbox. There is a "Choose your language" dropdown. Below the navigation, there are tabs for Enable, Basic, Advanced, Security (selected), ACL, and WPS. A warning message states: "This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network." The configuration fields are as follows:

Encryption :	WPA RADIUS
WPA Type :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES) <input type="radio"/> WPA2 Mixed
RADIUS Server IP Address :	<input type="text"/>
RADIUS Server Port :	1812
RADIUS Server Password :	<input type="text"/>

Buttons for "Apply" and "Cancel" are located at the bottom right of the form area.

## ACL

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



**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 router.



**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

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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.

The screenshot shows the configuration interface for a 300N WIRELESS ROUTER. The main heading is "300N WIRELESS ROUTER" with the "SITECOM" logo. The navigation menu includes "Status", "Wizard", "Wireless Settings", "Firewall", "Advanced Settings", and "Toolbox". The "Firewall" section is active, and the "DMZ" tab is selected. The page contains the following elements:

- An "Enable DMZ" checkbox.
- Fields for "Public IP Address" and "Client PC IP Address".
- Options for "Dynamic IP" (selected) and "Static IP".
- Buttons for "Add" and "Reset".
- A "DMZ table" with columns for "NO.", "Public IP Address", "Client PC IP Address", and "Select".
- Buttons for "Delete Selected", "Delete All", and "Reset" below the table.
- "Apply" and "Cancel" buttons at the bottom right.

**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.



**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.

300N WIRELESS ROUTER SITECOM

Status Wizard Wireless Settings **Firewall** Advanced Settings Toolbox Choose your language

Enable DMZ DoS **Access** URL block

Access Control allows users to define the traffic type permitted or not permitted in your LAN. You can control which PC uses what services or has access to.  
If both MAC filtering and IP filtering are enabled, the MAC filtering table will be checked first.

Enable MAC filtering  Deny  Allow

Client PC MAC Address	Comment
<input type="text"/>	<input type="text"/>

MAC Filtering table:

NO.	Client PC MAC Address	Comment	Select
-----	-----------------------	---------	--------

Enable IP Filtering Table (up to 20 computers)  Deny  Allow

NO.	PC Description	PC IP Address	Client Service	Protocol	Port range	Select
-----	----------------	---------------	----------------	----------	------------	--------

**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.



**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

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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.

## 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.



**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.

300N WIRELESS ROUTER SITECOM

Status Wizard Wireless Settings Firewall **Advanced Settings** Toolbox Choose your language

NAT Enable Port forwarding **Virtual Server** Special Applications Application Layer Gateway uPNP Quality of Service

You can configure the router as a Virtual Server allowing remote users to access services such as Web or FTP at your local PC. Depending on the requested service (TCP/UDP) port number, the router will redirect the external service request to the appropriate internal server (located at one of your local PCs).

Enable Virtual Server

Local IP	Local Port	Type	Public Port	Comment
<input type="text"/>	<input type="text"/>	Both	<input type="text"/>	<input type="text"/>

Add Reset

Current Virtual Server Table:

NO.	Local IP	Local Port	Type	Public Port	Comment	Select
-----	----------	------------	------	-------------	---------	--------

Delete Selected Delete All Reset

Apply Cancel

**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)

The screenshot shows the 'Special Applications' configuration page for a 300N ROUTER WIRELESS. The page includes a navigation bar with tabs for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. The 'Special Applications' tab is active. Below the navigation bar, there are several sub-tabs: NAT Enable, Port forwarding, Virtual Server, Special Applications, Application Layer Gateway, uPNP, and Quality of Service. The 'Special Applications' sub-tab is selected. The main content area contains a text box explaining that some applications require multiple connections and that the 'Trigger Port' field should be used to specify the port normally associated with an application. Below this text is a checkbox labeled 'Enable Trigger Port'. Underneath the checkbox is a table with the following columns: Trigger port, Trigger type, Public Port, Public type, and Comment. The 'Trigger port' field contains a range of ports, the 'Trigger type' is set to 'Both', and the 'Public Port' field is empty. Below the table is a section for 'Popular applications' with a dropdown menu and an 'Add' button. At the bottom of the page, there is a 'Current Trigger-Port Table' with columns for NO., Trigger port, Trigger type, Public Port, Public type, Comment, and Select. There are also 'Delete Selected', 'Delete All', and 'Reset' buttons for this table. The page ends with 'Apply' and 'Cancel' buttons.

**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



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

## UPnP

With UPnP, all PCs in your 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.



**UPnP Feature Disable** 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

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## 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.

**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



The screenshot shows the web interface for a 300N WIRELESS ROUTER by SITECOM. The interface has a navigation bar with tabs for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. The Toolbox tab is selected. Below the navigation bar, there are sub-tabs for Password, Timezone, Remote, Firmware, Back-up, Reset, and DDNS. The Password sub-tab is active. The main content area contains the following text: "You can change the password which is required to log on to the router. By default, the password is admin. Passwords can contain 0 to 30 alphanumeric characters, and are case sensitive." Below this text are three input fields: "Current Password :", "New Password :", and "Confirm Password :". At the bottom right of the form are "Apply" and "Cancel" buttons.

## 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.

The screenshot shows the configuration interface for a 300N WIRELESS ROUTER. The page title is "300N WIRELESS ROUTER" and the manufacturer is "SITECOM". The navigation menu includes "Status", "Wizard", "Wireless Settings", "Firewall", "Advanced Settings", and "Toolbox". The "Timezone" tab is selected. The settings are as follows:

Set Time Zone :	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London
Time Server Address :	europa.pool.ntp.org
Daylight Saving :	<input type="checkbox"/> Enable From January 1 To January 1

Buttons for "Apply" and "Cancel" are located at the bottom right of the form.

**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.



The screenshot shows the configuration page for a 300N WIRELESS ROUTER. The page has a navigation bar with tabs for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. Below this is a sub-navigation bar with tabs for Password, Timezone, Remote, Firmware, Back-up, Reset, and DDNS. The main content area contains a text box explaining the remote management function and a table with three columns: Host Address, Port, and Enable. The Host Address field is empty, the Port field contains '8080', and the Enable checkbox is unchecked. There are 'Apply' and 'Cancel' buttons at the bottom right.

Host Address	Port	Enable
<input type="text"/>	<input type="text" value="8080"/>	<input type="checkbox"/>

**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.

300N WIRELESS ROUTER SITECOM

Status Wizard Wireless Settings Firewall Advanced Settings Toolbox Choose your language

Password Timezone Remote Firmware Back-up Reset DDNS

DDNS allows users to map a static domain name to a dynamic IP address. You must get an account, password and your static domain name from the DDNS service provider..

Dynamic DNS :  Enable  Disable

Provider : 3322(qdns)

Domain Name :

Account/E-mail :

Password/Key :

Apply Cancel

**Enable/Disable** Enable/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-303/WL-306/WL-312 Wireless Broadband router are subject to the [GNU general public license](#).

## Appendix A: Licensing Information

This product includes third-party software licensed under the terms of the [GNU General Public License](#). You can modify or redistribute this free software under the terms of the [GNU General Public License](#). Please see Appendix B for the exact terms and conditions of this license.

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

#	Package name	Source
1	Linux v2.4.30	<a href="http://www.kernel.org">www.kernel.org</a>
2	Iptables v1.3.5	<a href="http://www.netfilter.org/">www.netfilter.org/</a>
3	Bridge-utils v1.2	<a href="http://bridge.sourceforge.net/">bridge.sourceforge.net/</a>
4	Busybox v1.7.4	<a href="http://www.busybox.net/">www.busybox.net/</a>
5	Rp-pppoe v3.8	<a href="http://freshmeat.net/projects/rp-pppoe/">freshmeat.net/projects/rp-pppoe/</a>
6	Pptp-client v1.7.1	<a href="http://pptpclient.sourceforge.net/">pptpclient.sourceforge.net/</a>
7	Ppp v2.4.3	<a href="http://ppp.samba.org/">ppp.samba.org/</a>
8	Udhcp v0.9.9-pre	<a href="http://udhcp.busybox.net/">udhcp.busybox.net/</a>
9	iproute2 v2.6.16-060323	<a href="http://www.linux-foundation.org/en/Net:Iproute2">www.linux-foundation.org/en/Net:Iproute2</a>
10	Dnsmasq v2.39	<a href="http://www.thekelleys.org.uk/dnsmasq/doc.html">www.thekelleys.org.uk/dnsmasq/doc.html</a>
11	Ez-ipupdate v3.0.11b8	<a href="http://ez-ipupdate.com/">ez-ipupdate.com/</a>
12	Libupnp v1.6.0	<a href="http://upnp.sourceforge.net/">upnp.sourceforge.net/</a>
13	Wireless-tools v28	RaLink SDK 2.1.0.0
14	U-boot v1.1.3	RaLink SDK 2.1.0.0
15	gcc-3.3.6	RaLink SDK 2.1.0.0
16	Uclibc-0.9.29	RaLink SDK 2.1.0.0

## 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

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## Appendix B: GNU GENERAL PUBLIC LICENSE

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