Aztech

# USER MANUAL

## DSL5068EN(1T1R)

ADSL2+ 150MBPS WIRELESS-N
MODEM ROUTER
V1.0

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# Contents

# About the Device

Functionality, performance, and fully enriched customer-centric features are considered as the best combination of an agreeable device design. The Aztech DSL5068EN(1T1R) is a 4-Port ADSL2/2+ 150Mbps Wireless-N Modem Router that not only effectively takes advantage of its 1T1R MIMO Technology support, but also sports a unique and authentic device design while providing exceptional wireless performance and wireless coverage your customers need for the devices that they have. The Aztech DSL5068EN(1T1R) combined these special factors while ensuring that the overall performance is accompanied by other exceptional features customers will surely enjoy partnering with their ADSL2/2+ connection.

- **802.11n: The Perfect Wireless Companion.** With its support for the 802.11n wireless standard, the Aztech DSL5068EN(1T1R) is capable of up to 150Mbps wireless transfer speeds to constantly ensure that your customers are equipped with the much needed wireless transfer speeds that would fit their internet activities such as web surfing, social networking, and even audio/video streaming. In addition, the DSL5068EN(1T1R) uses a 1T1R MIMO (Multiple In Multiple Out) Technology support which guarantees an improved wireless performance and an increased wireless range to make it perfectly possible to have the much needed wireless connectivity available throughout the house.

- **Exquisite Design and Build.** Enclosed in a simple device design, the Aztech DSL5068EN(1T1R) is equipped with a USB 2.0 Port for file storage sharing, a WPS (Wi-Fi Protected Setup) button to allow your customers to wirelessly connect their devices through a simple one touch setup, four (4) Ethernet ports to allow your customer's Ethernet devices (e.g. Desktop, laptop) to connect to the DSL5068EN(1T1R) through an

Ethernet cable, and an ON/OFF power switch. Such specifics were all carefully thought of and included in order to maximize the usage of the DSL5068EN(1T1R).

- **Hyped-up with Function-rich Features.** Aside from having a unique device design, the DSL5068EN(1T1R) has also been developed with function-rich features customers will surely look out for. The Aztech DSL5068EN(1T1R) has a TR069 support specifically made for remote management, remote configuration, and zero touch set up that allows efficiency and cost saving on customer support and logistics. Accompanied by its own intuitively designed OS independent web user interface, customers will be able to set up the device easily and even manage the device's overall features without any difficulty. In addition, other important features such as Plug and Play support, NAT Based firewall, MAC Address filtering, and other similar features have also been integrated to the device.

# Minimum System Requirements

Your computer must meet the following minimum requirements.

- Any Operating System
- Web Browser
- Ethernet network adapter
- An active DSL Internet account

# Package Contents

Please check the package contents listed below. For any missing items, please contact your dealer immediately. Product contents vary for different models.

- DSL5068EN(1T1R)
- Ethernet Cable
- Telephone Cable
- DSL Microfilter
- 12V 1A DC Power Adapter
- Easy Start Guide
- User Manual

# Device Design

## Front Panel


| LABEL | ICON | ACTION | DESCRIPTION |
|---|---|---|---|
| **POWER** | | OFF<br>Steady green<br>Steady red | No power is supplied to the device<br>Connected to an AC power supply<br>Error on the device |
| **ETHERNET LAN 1-4** | | OFF<br>Steady green<br>Blinking green | No Ethernet connection<br>Connected to an Ethernet port<br>Transmitting/Receiving data |
| **USB** | | OFF<br>ON | There is no USB device connected to the corresponding USB port.<br>A USB device is connected to the corresponding USB port. |
| **WIRELESS** | | OFF<br>Steady green<br>Blinking green | Wireless interface disabled<br>Wireless Interface enabled<br>Transmitting/Receiving data |
| **WPS** | | OFF<br>Blinking green | WPS disabled/completed authentication<br>WPS authentication in-progress |
| **DSL** | | Blinking green<br>Steady green | Establishing or No DSL signal<br>DSL signal is established |
| **INTERNET** | | OFF<br>Steady green<br>Blinking green<br>Steady red | No connection to the Internet<br>Internet connection established<br>Transmitting/Receiving data<br>PPP authentication failed |

# Back Panel

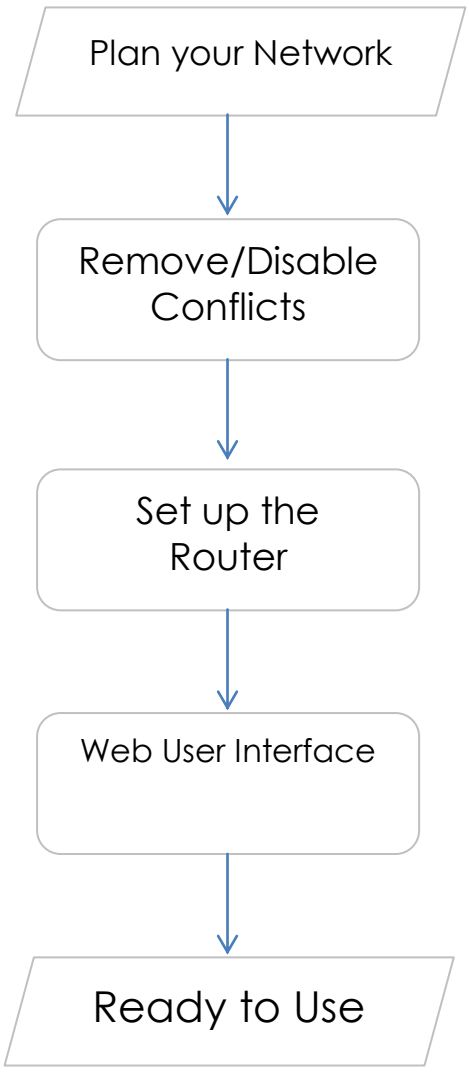
| LABEL | DESCRIPTION |
|---|---|
| **ANTENNA** | Fixed Wi-Fi Antenna |
| **12VDC PORT** | 12V 1.0A DC Input port |
| **ETHERNET PORTS 1-4** | Connecting computers and other Ethernet devices (RJ45) |
| **DSL PORT** | Connecting the modem to an ADSL line (RJ11) |

# Side Panel

| BUTTON/ PORT | DESCRIPTION |
|---|---|
| **USB PORT** | For connecting USB devices such as USB external hard drives. |
| **WPS BUTTON** | Press for two (2) seconds to initiate Wireless Protected Setup (WPS) with WPS-capable clients. |
| **ON/OFF** | Power ON/OFF button |
| **RESET BUTTON** | • Press for 5 seconds to perform device reboot<br>• Press for 10 seconds to restart the device to its factory defaults. |

# Getting Started

Setting up the device is easy. The flowchart below provides an outline of the steps needed in order to complete the installation. Brief descriptions appear beside each step. Detailed instructions are provided in the subsequent pages.




You may refer to the diagram provided in this user manual for the suggested network setup.

You may need to check some settings or disable some applications before proceeding with the installation.

Connect the telephone cables, Ethernet cables, and power adapter.

You may configure your router's wireless settings and other router features through the Web User Interface.

You may now access the internet.

# New Features

Your DSL5068EN(1T1R) is a residential gateway equipped with the below improved features:

**Hardware Improvements**

A. **4 Ethernet ports.** Equipped with 4 Ethernet ports, the DSL5068EN(1T1R) can easily accommodate a maximum of 4 Ethernet devices (e.g. desktops, laptops).

B. **5 dBi Antenna.** The DSL5068EN(1T1R) has a 5dBi antenna that easily allows this device to attain more wireless range.

C. **USB Port.** Allows you to connect USB external hard drives / storage.

D. **WPS Button.** Allow your WPS-enabled devices to connect wirelessly to your DSL5068EN(1T1R) through a simple press of a button.

**Software Improvements**

A. **Bandwidth Control.** Allows you to manage both incoming and outgoing bandwidth of your subscription.

B. **Virtual LED Status.** For instances wherein you wish to view the LED status of your modem, the Web GUI has virtual LED indicators which show the light status of the LEDs on your device.

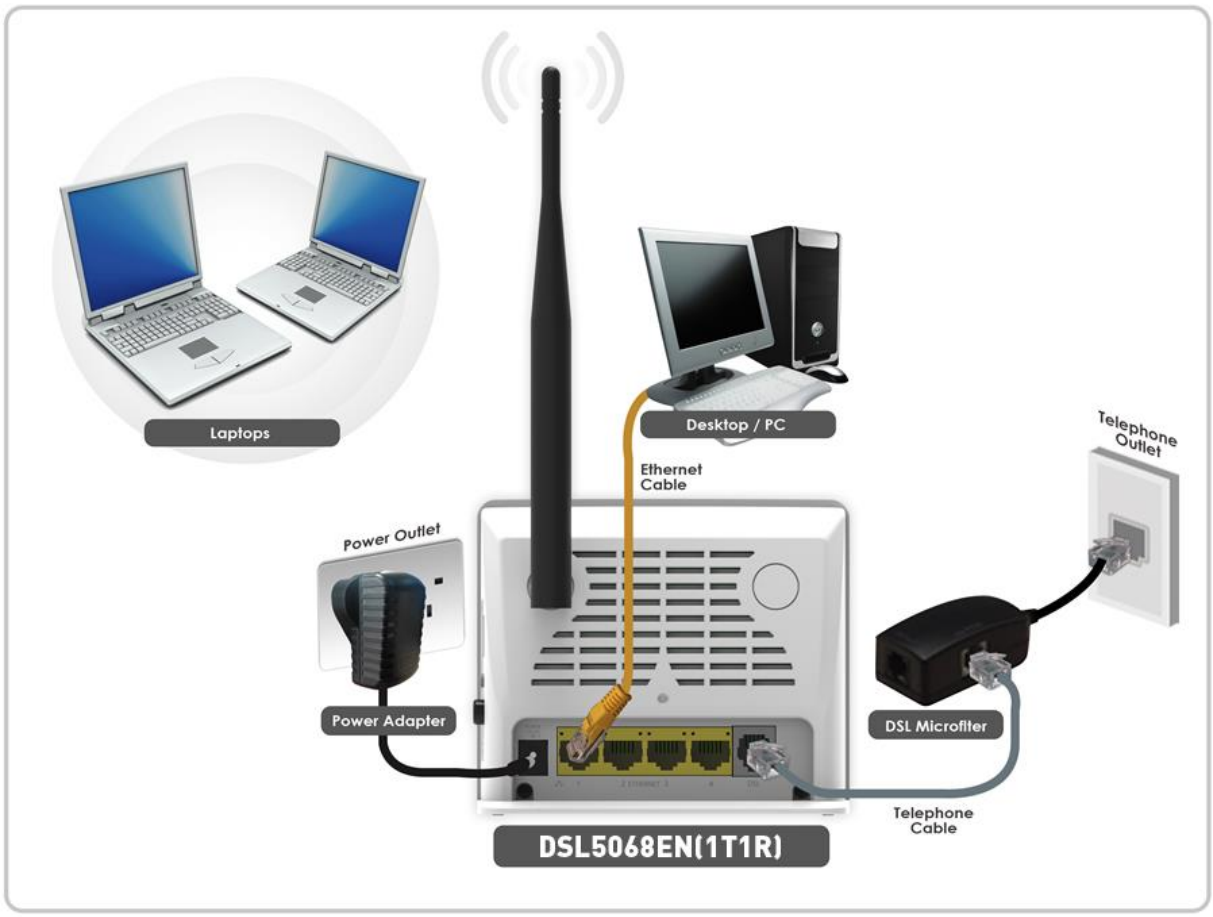
C. **PPP Account Lock.** Locks in the PPP username and password entered once Globe network detects an active account. This feature helps to prevent tampering of the credentials.

D. **Soft Factory Reset.** The Web GUI of your DSL5068EN(1T1R) allows you to reset your device without pressing the Reset button of your modem. All changes will go back to factory settings except for the PPP username and password.

- **Hard Factory Reset.** Your modem is equipped with a reset button that has various responses depending on how many seconds it is pressed.
    - **1-7 seconds.** Only performs device reboot.
    - **8-10 seconds.** Factory default reset except for username and password.

# Planning Your Network

Before moving ahead to setup your network, it is a good idea to draw out a network diagram to help identify your network devices and plan out how to connect these devices. The illustration below is an example of a network diagram.




Each port in the router can be used for different connections. For example:

- Ethernet 1 – connect to a Desktop / PC
- Wireless – connect a wireless laptop to the built in wireless access point

To create a network diagram:

- For wireless devices, identify the wireless devices you want to include in the network
- For wired devices, identify which modem port you want to use for each device.

# Removing/Disabling Conflicts

To ensure that the modem installation moves on smoothly, you need to remove or disable conflicts that may interfere with the installation. Probable conflicts may include:

- Internet sharing applications
- Proxy software
- Security software
- TCP/IP settings
- Internet properties
- Temporary Internet files

## Internet Sharing, Proxy, and Security Applications

Internet sharing, proxy software, and firewall applications may interfere with the modem installation. These should be removed or disabled before starting the installation.

If you have any of the following or similar applications installed on your computer, remove or disable them according to the manufacturer's instructions.

| **Internet Sharing Applications** | **Proxy Software** | **Security Software** |
|---|---|---|
| Microsoft Internet Sharing | WinGate | Symantec |
| | WinProxy | Zone Alarm |

# Configuring TCP/IP Settings

Check if your computer uses the default TCP/IP settings.

To check the TCP/IP properties:

1. Select **Start > Run**. The Run dialog box would appear.
2. Enter **control ncpa.cpl** on the input box, and then click the **OK** button. This would open the Network Connections window in your computer.
3. Right-click **LAN** and then select **Properties**. The Local Area Connection Properties dialog box would appear.
4. Select **Internet Protocol (TCP/IP)** and then click **Properties**. The Internet Protocol (TCP/IP) dialog box would appear.
5. Select **Obtain an IP address automatically**.
6. Click the **OK** button to close the Internet Protocol (TCP/IP) dialog box.
7. Click the **OK** button to close the Local Area Connection Properties dialog box.

# Configuring Internet Properties

To set the Internet Properties:

1. Select **Start > Run**. This opens the Run dialog box.
2. Enter **control inetcpl.cpl** and then click **OK** to open the Internet Properties window.
3. Click on the **Connections** tab.
4. On the Dial-up and Virtual Private Network settings pane, select **Never dial a connection**.
5. Click **OK** to close Internet Properties.

# Removing Temporary Internet Files

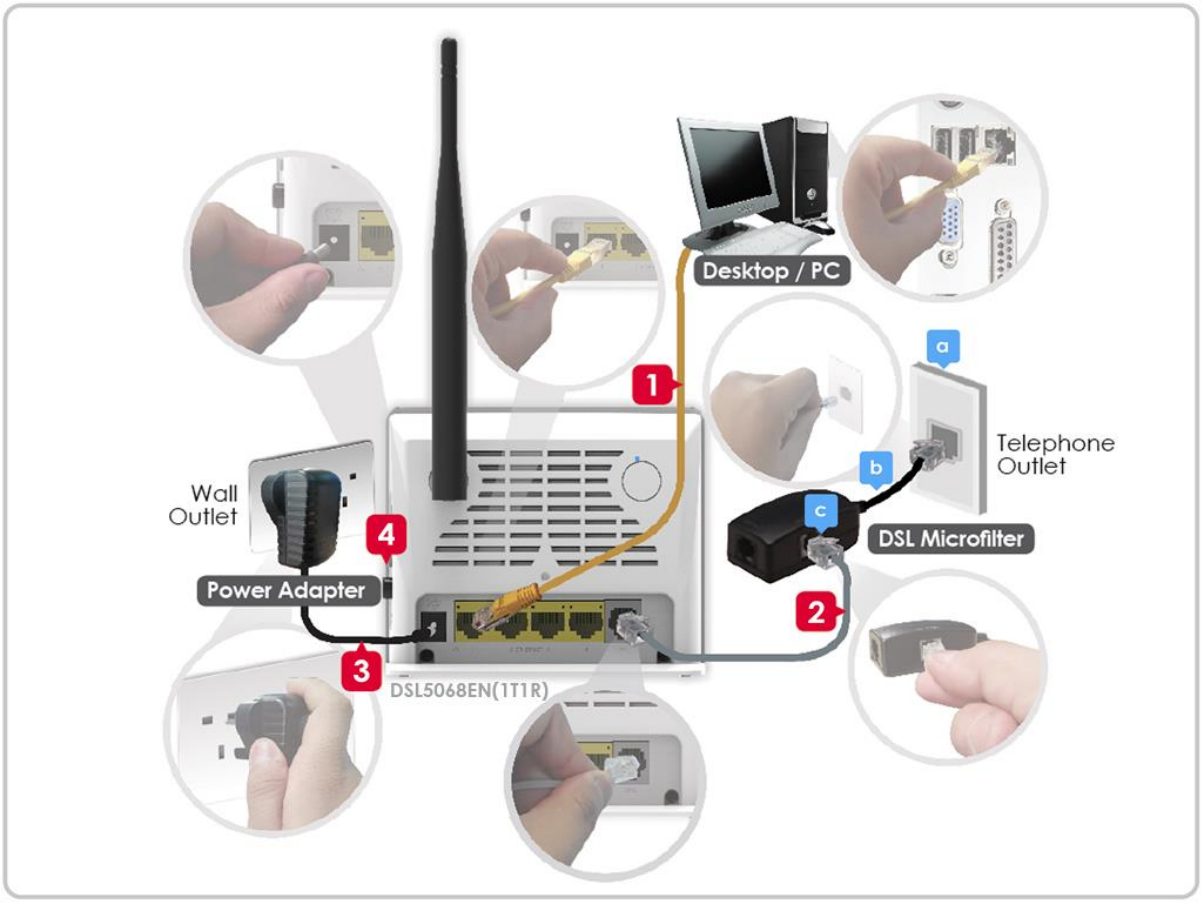
Temporary Internet files are files from Web sites that are stored in your computer. Delete these files to clean the cache and remove footprints left by the Web pages you visited.

To remove temporary Internet files:

1. Select **Start > Run** to open the Run dialog box.
2. Enter **control** and then click the **OK** button to open the Control Panel.
3. Double-click **Internet Options**.
4. On the Internet Options window, in the Temporary Internet Files pane, click **Delete Cookies**.
5. Click **Delete Files**.
6. Click **OK** to close Internet Properties.

# Setup the Device

When installing the modem, find an area where there are enough electrical outlets for the modem, the main computer, and your other computer devices. You can refer to the diagram below for further reference while setting up your device.




To setup the modem:

1. Plug one end of the Ethernet cable from the modem's Ethernet port and plug the other end into the Ethernet port of your computer.

   If you have another device you need to connect through wire into the modem, use another piece of Ethernet cable. Plug one end of the Ethernet cable from the computer's Ethernet port and then plug the other end into an available Ethernet port in the modem.
2. Plug one end of the telephone cable from the POTS Splitter's ADSL port and then plug the other end into the modem's DSL port.

**POTS Splitter (DSL Microfilter)**

Your phone line carries with it both phone calls and Internet signals. When you are using the Internet, the connection produces high-pitched tones that can affect your voice calls when using the phone. Installing a Plain Old Telephone Service (POTS) splitter separates the two signals and eliminates the noise.

**To setup a telephone on the POTS Splitter (DSL Microfilter):**

a. Locate the phone jack in your house.
b. Insert the POTS Splitter into the phone jack.
c. Plug one end of the telephone cable from the POTS Splitter's TEL port and then plug the other end into the telephone.

3. Connect the power adapter from the modem's 12V 1.0A DC port into the electrical outlet.
4. Press the ON button to turn ON the device.

# The Web User Interface (GUI)

The Web User Interface allows you to configure all of your modem's functionalities. The layout and content positioning of the device's web user interface is mapped below.


# Accessing the Web User Interface

To access your modem's Web User Interface:

1. Launch any web browser (e.g. Internet Explorer, Google Chrome).
2. On the address bar, type **192.168.254.254** and press Enter. You will be redirected to the Home page of your modem's Web User Interface.

# Web User Interface Modes

By default, upon accessing the Web User Interface of your DSL5068EN(1T1R), you would be redirected to the Basic Mode.

The Web User Interface is subdivided into two (2) different modes:

a. Basic Mode

b. Advanced Mode


Without logging in, the two (2) interface modes are only capable of the following:

- The **Basic Mode** is only capable of providing system/ADSL/ WAN information summary, and other router oriented statuses which would be useful in knowing the device's current state(s) / information.
- The **Advanced Mode** is only capable of providing access to network diagnostic tools such as ping and traceroute.

# Switching Modes

You can switch modes by clicking on the **Basic Mode** or **Advanced Mode** button located on the upper left hand portion of your Web User Interface (e.g. if on Basic Mode, click on Advanced Mode to switch – vice versa). This can also be done upon logging in.

# Logging In to the Web User Interface

To login to the web user interface, simply click the **Login** button located beside the Advanced Mode / Basic Mode button, and input **user** as its username and password.

# Connecting to the Internet

You can use the web user interface to quickly setup your Internet connection, however, before proceeding; kindly prepare the internet account details provided by your Internet Service Provider (ISP).

To connect to the Internet

1. Log in to the Web User Interface.
2. Click **Quickstart** in the **Home** submenu as seen below. You will then be redirected to the Quickstart page:


3. On the **Quickstart** page, correctly input the internet account details supplied by your ISP on the **Username** and **Password** fields.


4. Click the **Apply** button to apply changes.
   If details were entered correctly, your DSL5068EN(1T1R)'s INTERNET LED would now be in STEADY GREEN, and you may now access the internet.

# Basic Mode

The Basic Mode displays your modem information and its current configuration. It allows you to view various modem information, quickly configure modem settings to have access to the Internet, and also configure your modem's wireless settings.


The Basic Mode contains the following menus:

- Home
- Status
- Wireless

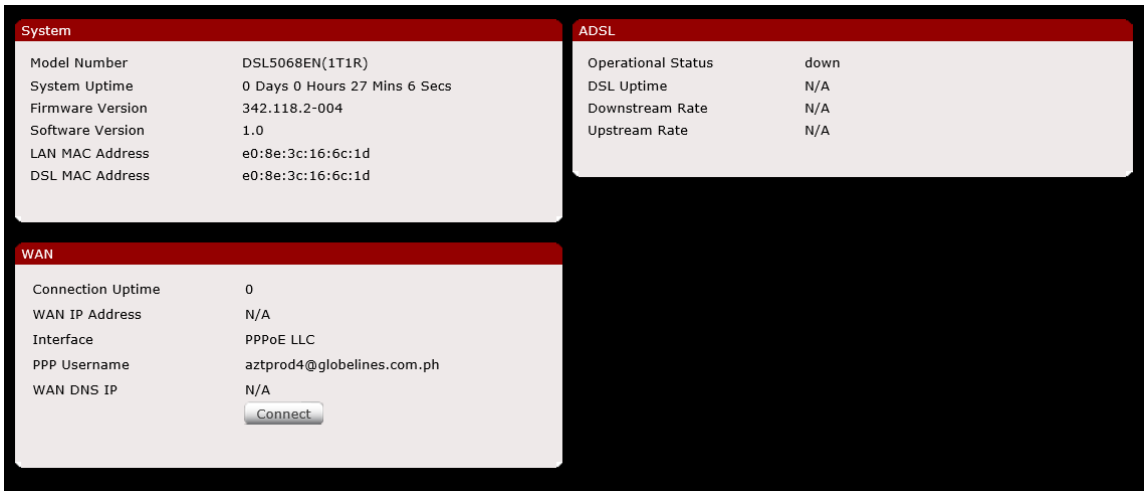
# Basic – Home

The Basic-Home page of the web user interface displays a summary of your modem, ADSL connection status, and WAN connection status.

It has the following sub menus:

- Main
- Quickstart


## A. Main



- **System.** Displays a summary of your modem's information such as Model Number, System Uptime, Firmware Version, Software Version, LAN MAC Address, and DSL MAC Address.
- **WAN.** Displays the current status of your WAN Connection such as Connection Uptime, WAN IP Address, Interface, and PPP Username. It also allows you to connect to the internet using the registered PPP username entered in the Quickstart.
- **ADSL.** Displays information about the current status of your DSL connection such as Operational Status, DSL Uptime, Downstream Rate, and Upstream Rate.

## B. Quick Start

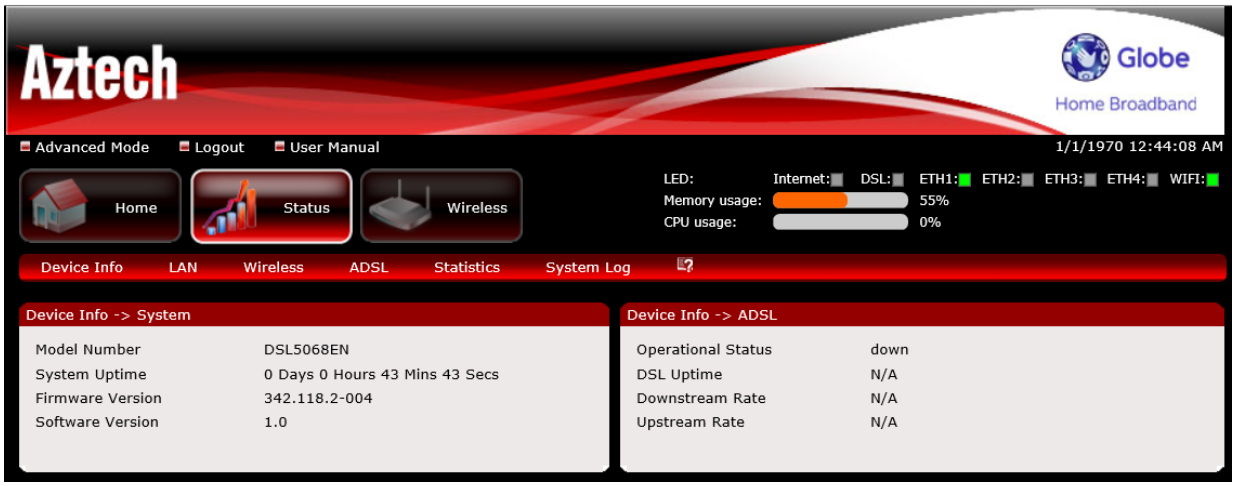

The Quick Start allows you to easily configure your internet connection in order to have internet access. You may refer to the **Connecting to the Internet** section of the user manual to know the procedures in the Quick Start.

NOTE: This modem is specifically configured for Globe Telecom. You will only be able to edit the contents of the Quick Setup under the following conditions provided below. You may also refer to the virtual LED status located at the top right corner of the Web User Interface.


1. The modem is connected to the Globe network, and the **Internet** and **DSL** light are **GREEN**.
2. The **Username** and **Password** saved on the modem is not a valid Globe Account or does not have correct

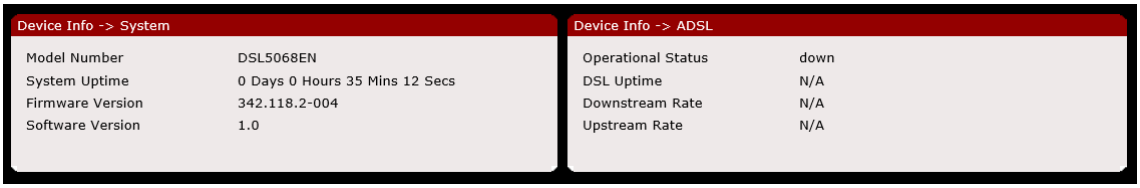
# Basic – Status

The Basic – Status page of the web user interface displays various summaries of your modem such as System and ADSL information, LAN Configuration and DHCP router table, Wireless Configuration, ADSL Status, and Connection Statistics.

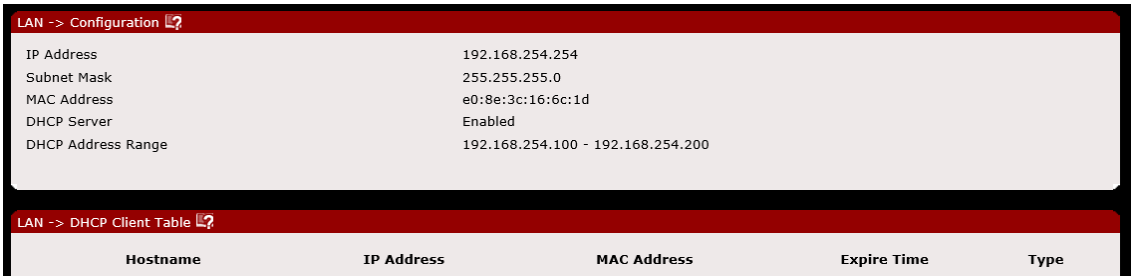



The Basic Status contains the following sub menus:

- **Device Info.** Displays the model number, the number of hours/days/mins/secs your device has been functioning, the firmware version, the software version, the ADSL operational status, DSL uptime, and the downstream and upstream rate.



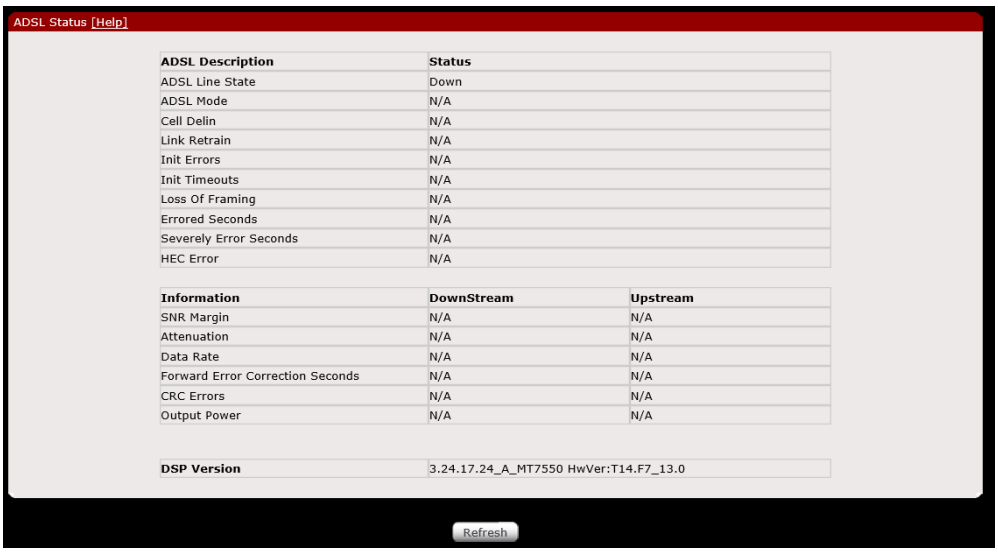

- **LAN.** Displays the current configuration settings of your LAN connection such as the router's IP address, subnet mask, its MAC Address, DHCP server, and DHCP Address Range. In addition, the DHCP client table



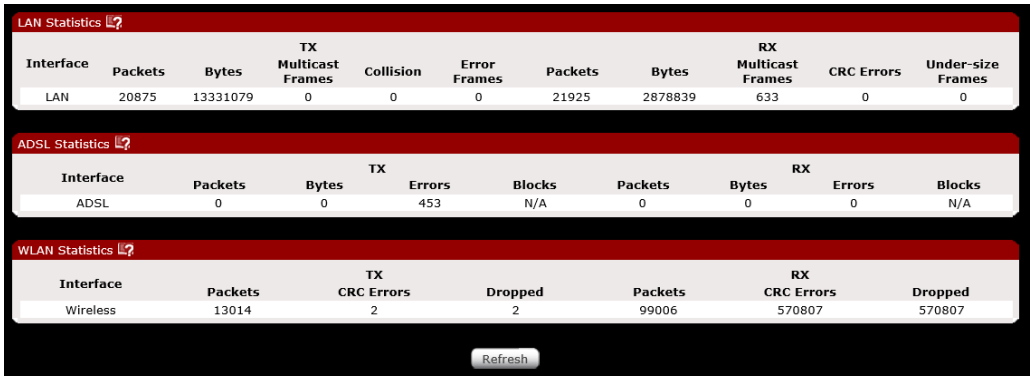
- **Wireless.** Displays the current configuration settings of your Wireless. Information such as the wireless state, band, mode, broadcast SSID state, wireless MAC address, SSID, Authentication mode, and encryption mode can be found here.


- **ADSL.** Displays the current status of various ADSL oriented descriptions. In addition, upstream and downstream rates for SNR Margin, Attenuation, Data Rate, Forward Error Correction Seconds, CRC Errors, and output power can be seen in this area. The DSP Version is also displayed as well.

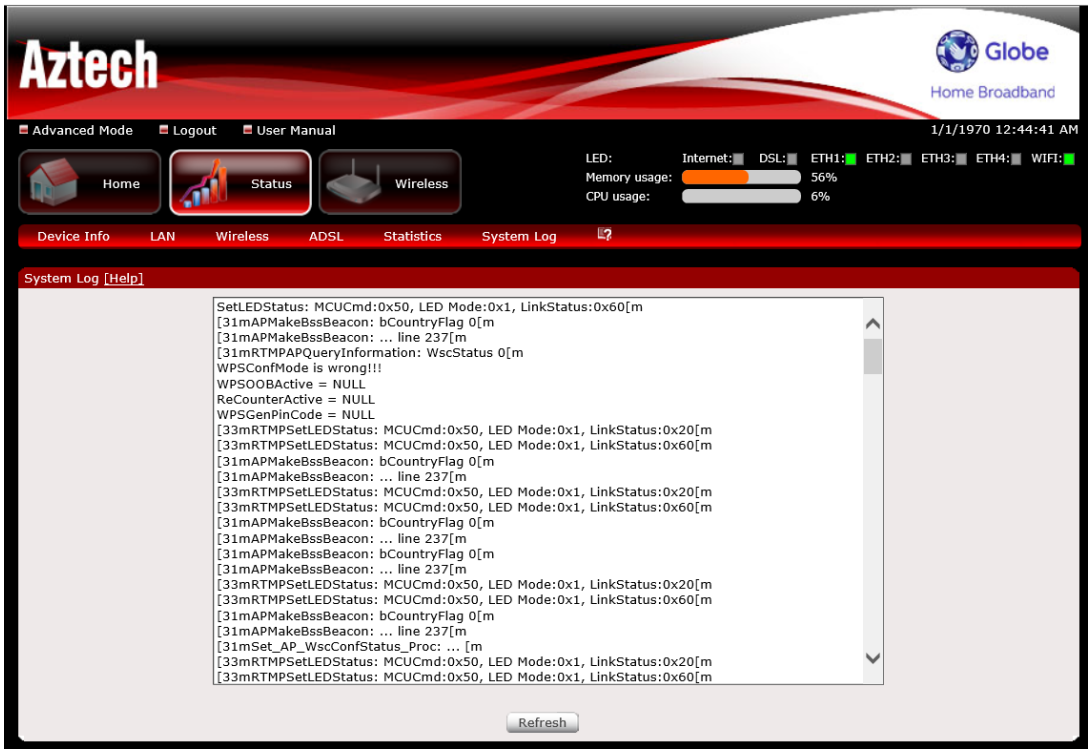
  NOTE: It is advised to click the **Refresh** button to always see the updated ADSL Status. The **Retrain** button on the other hand refreshes the DSL line.




- **Statistics.** Shows the statistics such as the number of packets sent and received, the number of bytes sent and received, the rx and tx multicast frames, the collision count, the number of crc errors, and the number of under-size frames for the LAN, ADSL, and Wireless interface.




- **System Log.** Allows you to view the system log of your router. Simply click the refresh button to refresh the current activity log of your router.

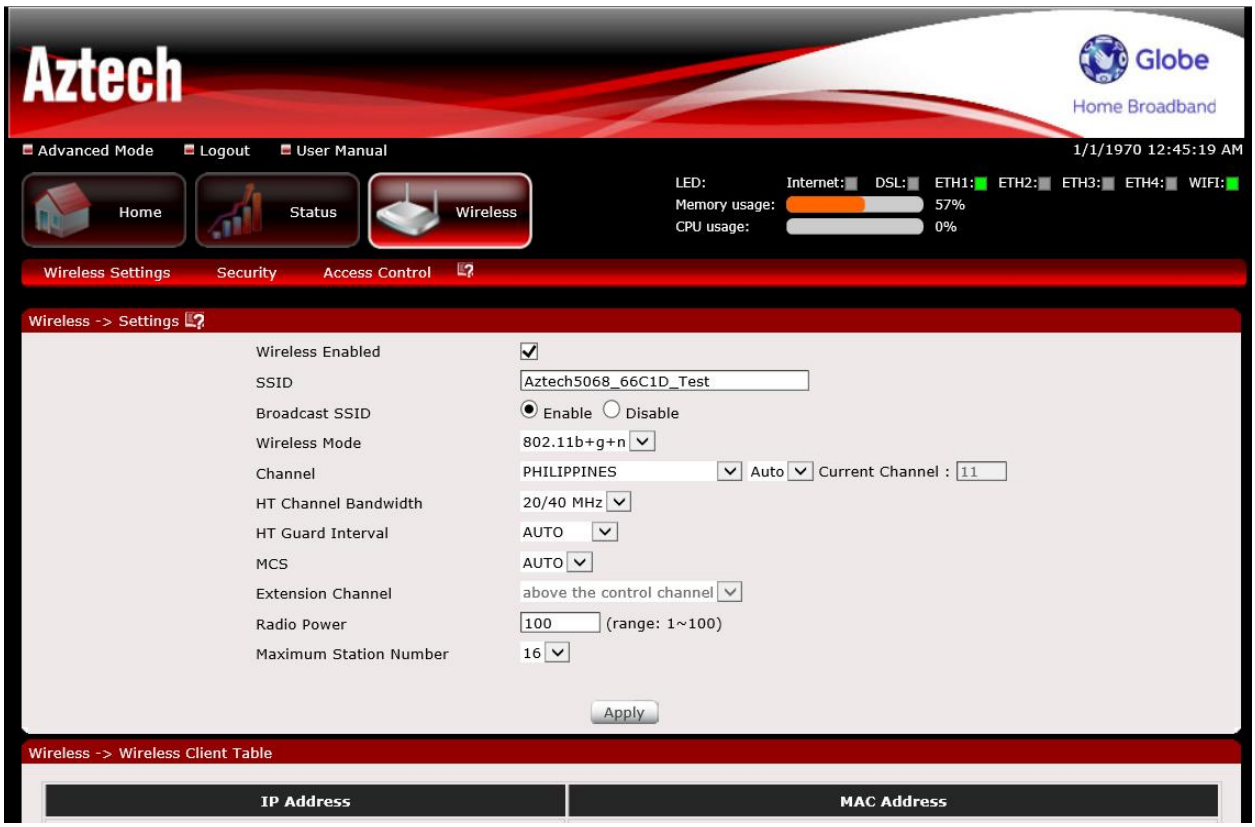


# Basic – Wireless

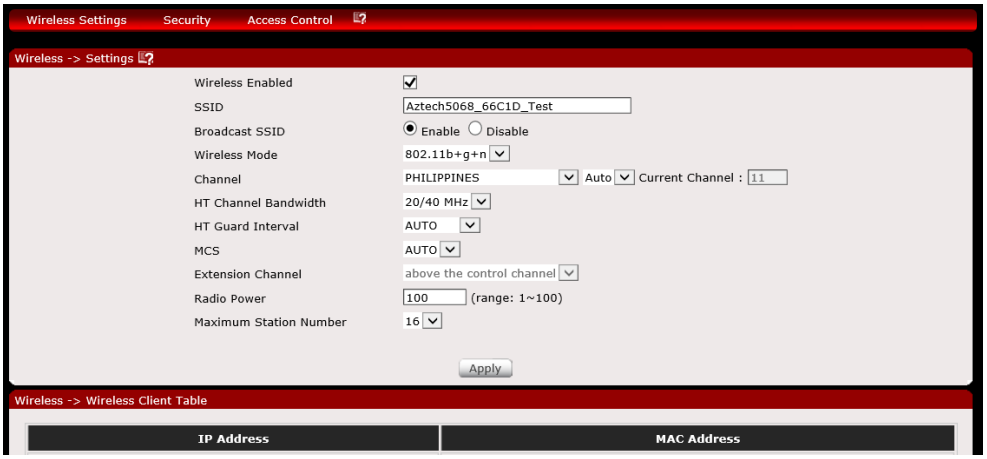
The Basic – Wireless page of the web user interface allows users to configure the modem's wireless settings, wireless security, and access control.

The Wireless page contains the following sub menus:

- Wireless Settings
- Security
- Access Control



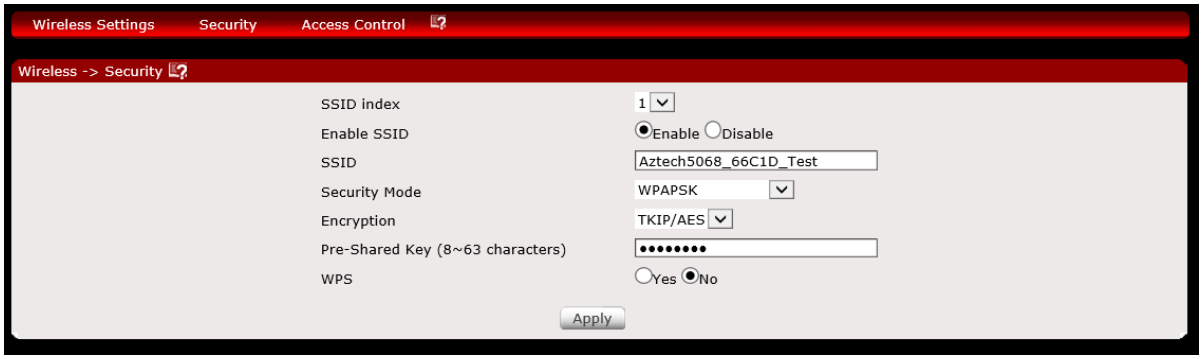

## A. Wireless Settings



- **Wireless Enabled.** Enable or disable the wireless connection of the device. Once the Wireless connection is disabled, you would not be able to connect to your device wirelessly.
- **SSID.** Allows you to change the default wireless network name set on your modem. The default SSID can be seen on the sticker underneath your modem. Do take note that the SSID input box also reflects the SSID input box under Security menu.
- **Broadcast SSID.** Broadcasts or Hides the Wireless SSID**.** Do take note that upon disabling the SSID broadcast, you would have to manually input the connection details (e.g. SSID, Encryption mode, and Password) before you can connect wirelessly to your modem.
- **Wireless Mode.** Allows you to identify the wireless mode of your modem. By default this is set to 802.11b+g+n. It is suggested to leave it as it is in order for your modem to support various devices that have different modes.
- **Channel.** Allows you to change the current country selected and the channel as well.

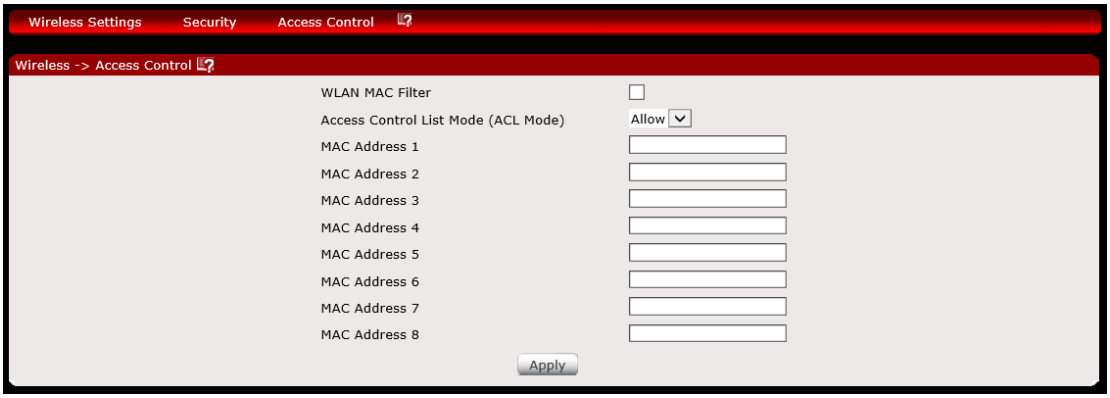
  NOTE: It is strongly advised to leave the current settings as is. By default, the Country is selected as Philippines and the channel is set as Auto.
- **HT Channel Bandwidth/HT Guard Interval/MCS/Extension Channel.** Wi-Fi configuration for advanced users. It is advised to leave these features to their default values to provide maximum efficiency.
- **Radio Power.** Allows you to adjust the frequency strength emitted by your modem.
- **Maximum Station Number.** Allows you to select the maximum amount of wireless clients that can connect to your router's wireless network.
- **Wireless Client Table.** Shows the IP and MAC addresses of the devices wirelessly connected to your modem.

## B. Security



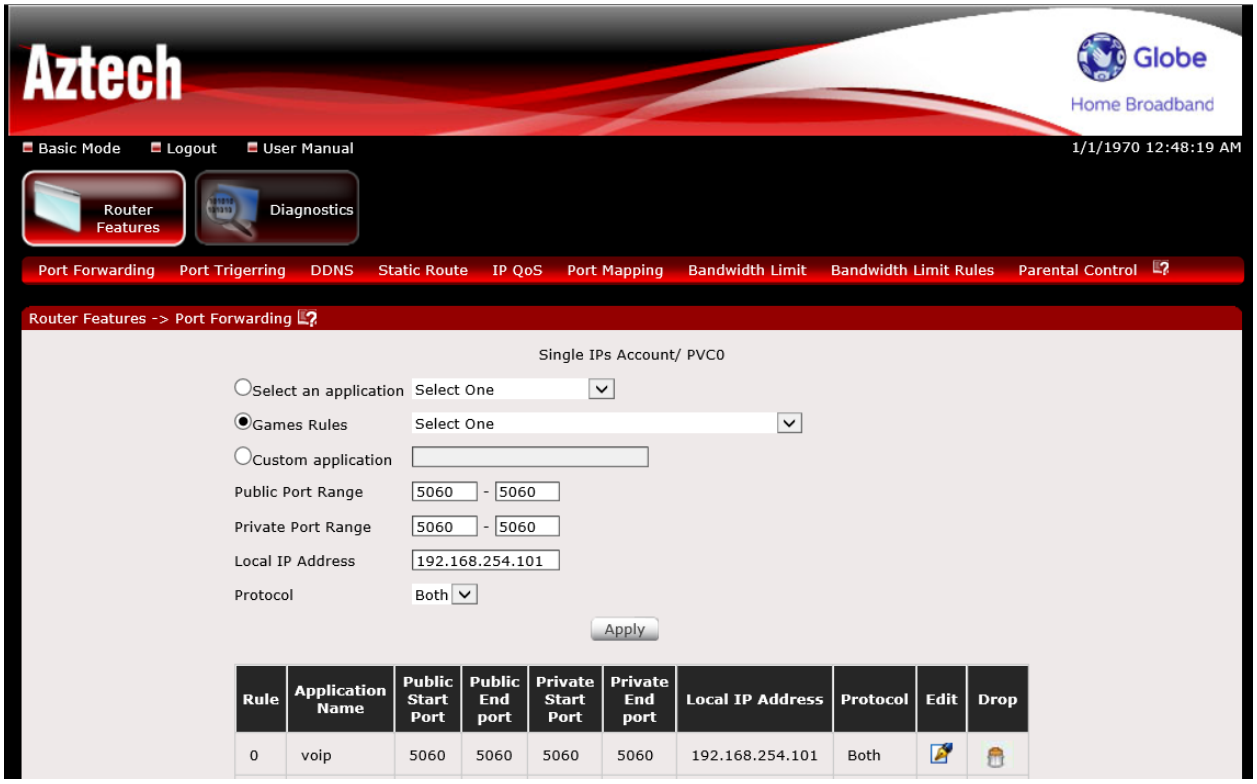

- **SSID Index.** Defines a group number for different Wi-Fi profiles.
- **Enable SSID.** This will allow you to enable/disable a wireless network for multiple SSID requirements.
- **SSID.** Allows you to change the default wireless network name set on your modem. The default SSID can be seen on the sticker underneath your modem. Do take note that the SSID input box also reflects the SSID input box under Wireless Settings menu.
- **Security Mode.** Allows you to change the default wireless security set on your device. By default, the security mode is set to WPA-PSK/WPA2-PSK.
- **Encryption.** Allows you to change the encryption used by your modem. By default, the encryption mode is set to TKIP/AES.
- **Pre-Shared Key.** Allows you to set / change the wireless password set on your modem. The default pre-shared key can be seen on the sticker underneath your modem
- **WPS.** Allows you to enable or disable Wi-Fi Protected Setup feature of your modem.

**C. Access Control.** Allows you to Allow or Deny devices' wireless access to your modem. Simply tick the WLAN MAC Filter checkbox, input the MAC address of the devices, and select Allow or Deny on the ACL Mode selection list. Click the Apply button to apply changes.



# Advanced Mode

The Advanced Mode page can be accessed from the Basic page by clicking on **Advanced Mode** button located at the upper left corner of your screen. Other modem features may easily be accessed and configured in this mode.




The Advanced Mode contains the following menus:

- Router Features
- Diagnostics

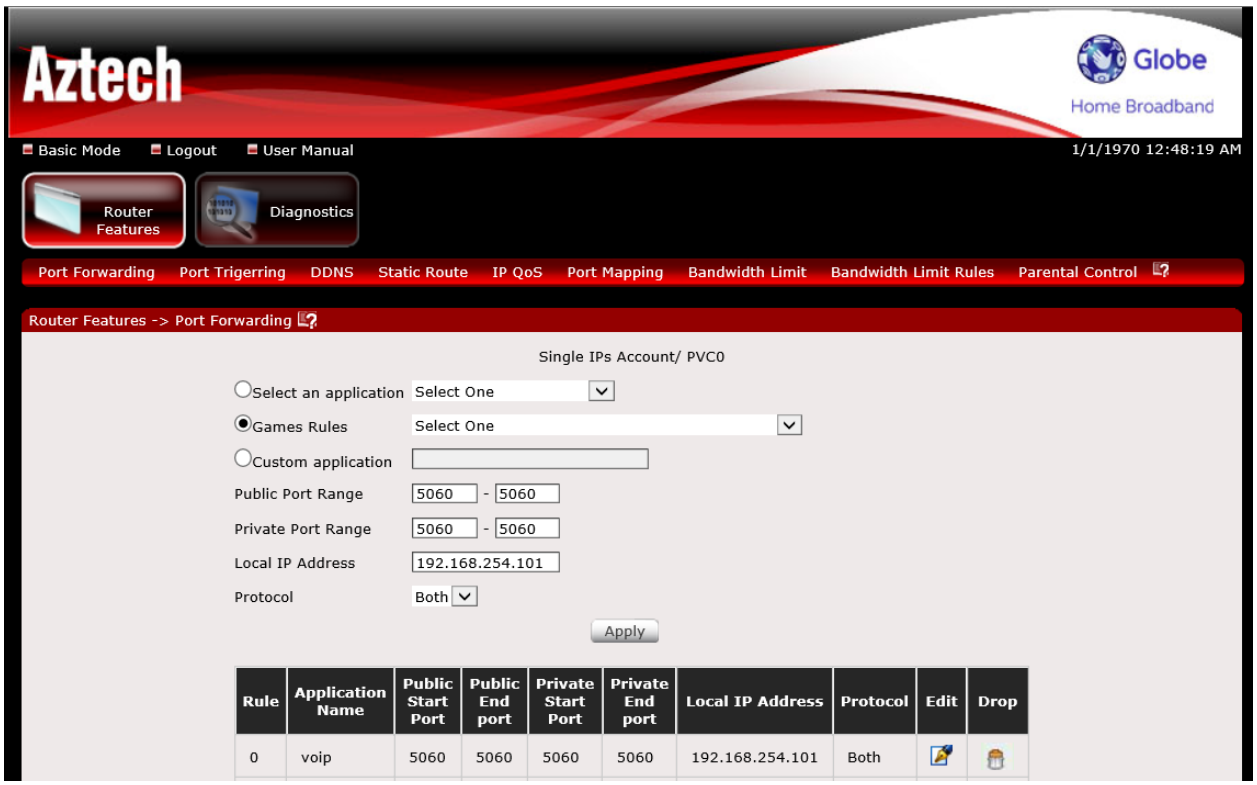
NOTE: Without logging in to the Web User interface the Advanced mode would only contain Network Tools (ping and traceroute).

# Advanced Mode – Router Features

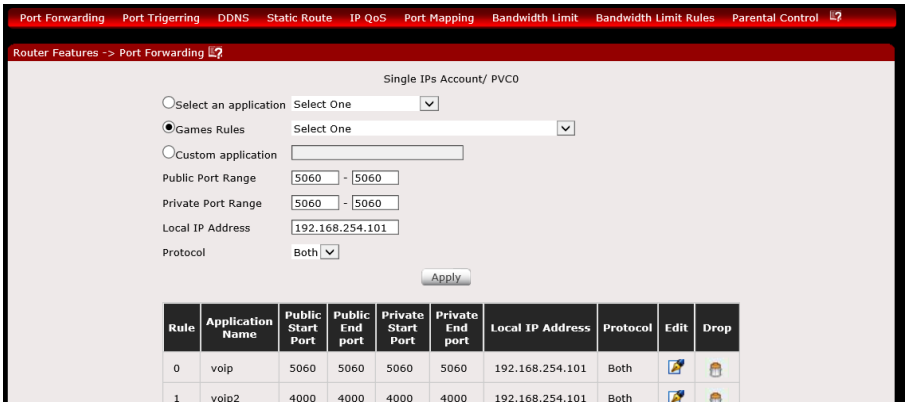
The Advanced – Router Features page allows you to change various advanced modem oriented features of your modem. The Advanced Mode – Router Features is also the default page of the Advanced Mode page.

The Advanced Mode – Router Features page contains the following sub menus:

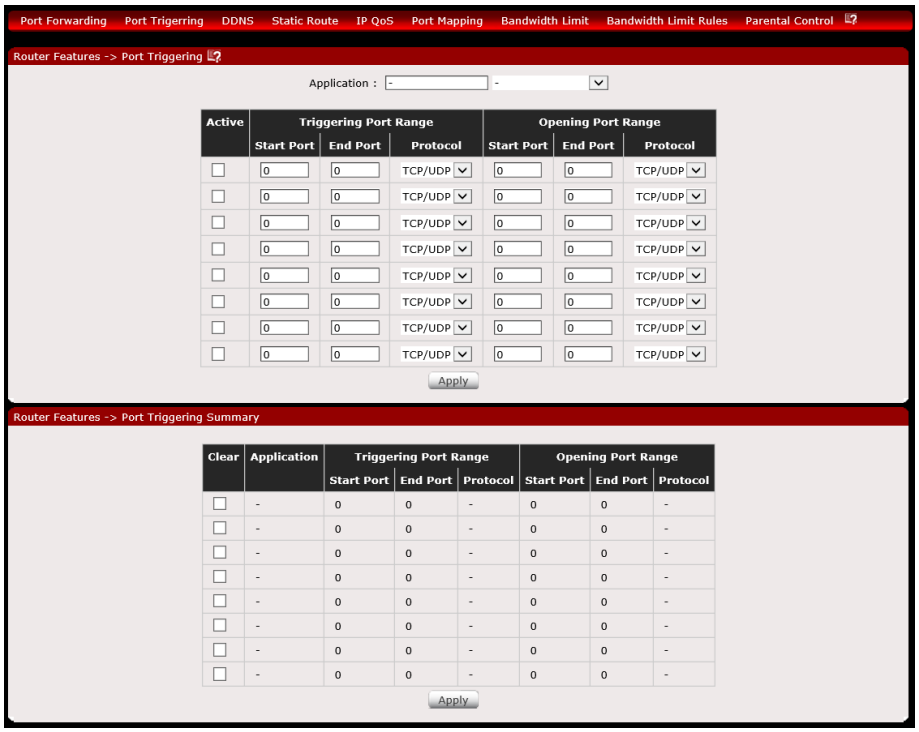
- Port Forwarding
- Port Triggering
- DDNS
- Static Route
- IP QoS
- Port Mapping
- Bandwidth Limit
- Bandwidth Limit Rules



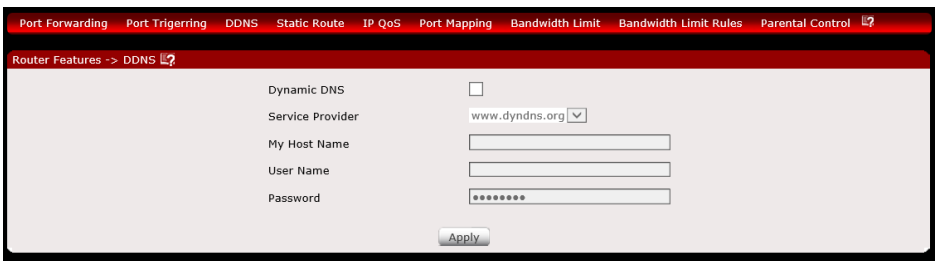
- **Port Forwarding.** Allows you to set and direct incoming traffic from the Internet to a specific computer in your local network.



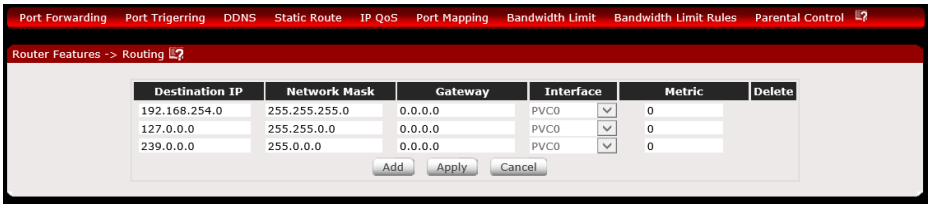

- **Port Triggering.** Through port triggering, incoming connection to a specified port could be redirected to the PC that initiated the request.



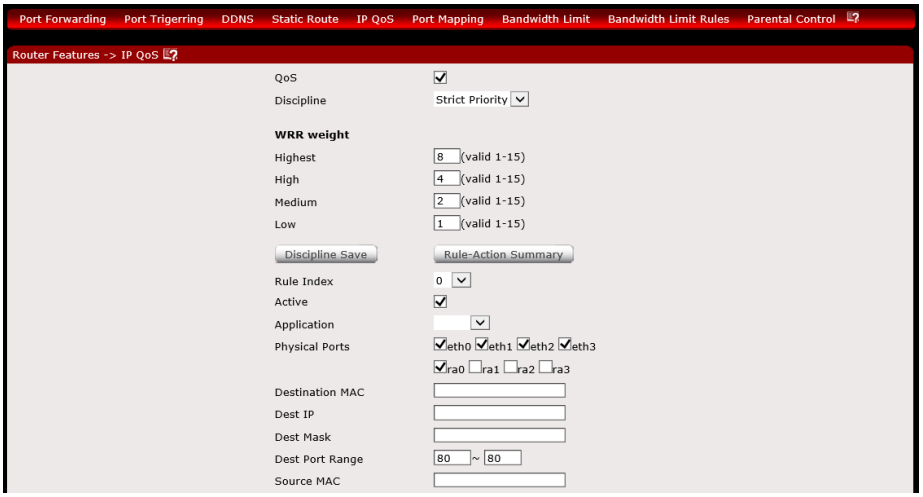

- **DDNS.** Allows you to set a static host name with a Dynamic IP address.



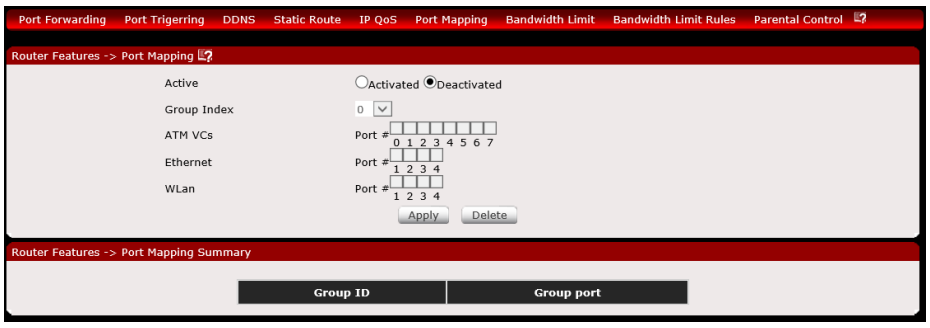
- **Static Route.** Allows you to manually define data transmitting paths if your LAN consists of multiple subnets.



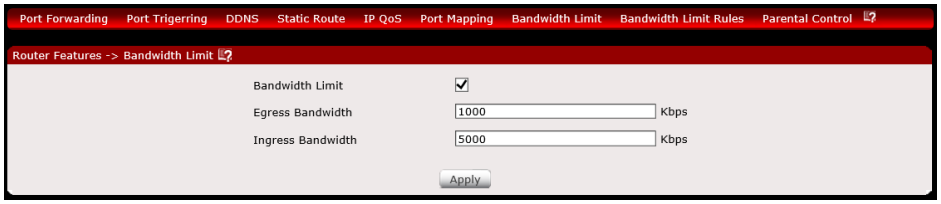

- **IP QoS Prioritization.** Allows the user to define networking service and protocol priority.



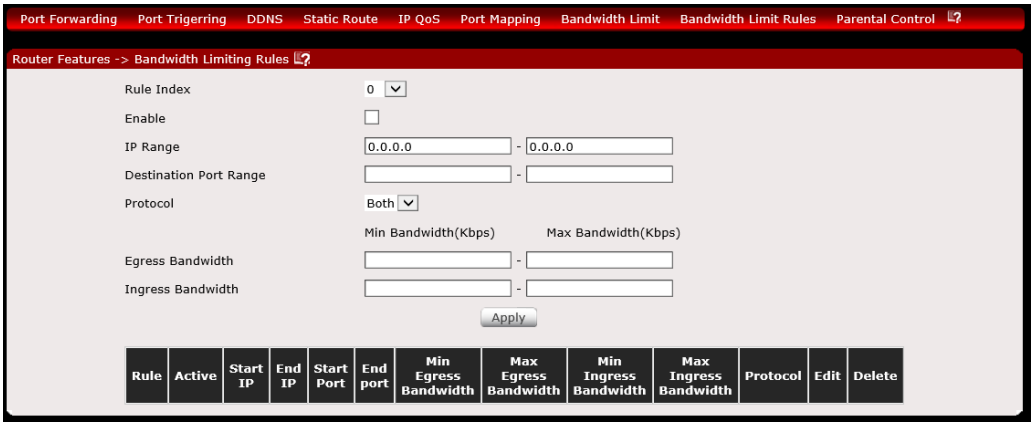

- **Port Mapping.** Allows ATM PVCs to be permanently routed to a physical interface on the device.




- **Bandwidth Limit.** Allows you to control the amount of bandwidth for both Egress (outgoing) and Ingress (incoming) data. To configure bandwidth limit, it is important to enable the Bandwidth Limit function first by ticking the Bandwidth Limit checkbox.



- **Bandwidth Limiting Rules.** Defines the amount of bandwidth per IP for both Egress (outgoing) and Ingress (incoming) data. The Bandwidth Limit tab must be enabled first before you can configure the fields below. All IPs which are not defined by a rule will follow the limit in the Bandwidth Limit tab.

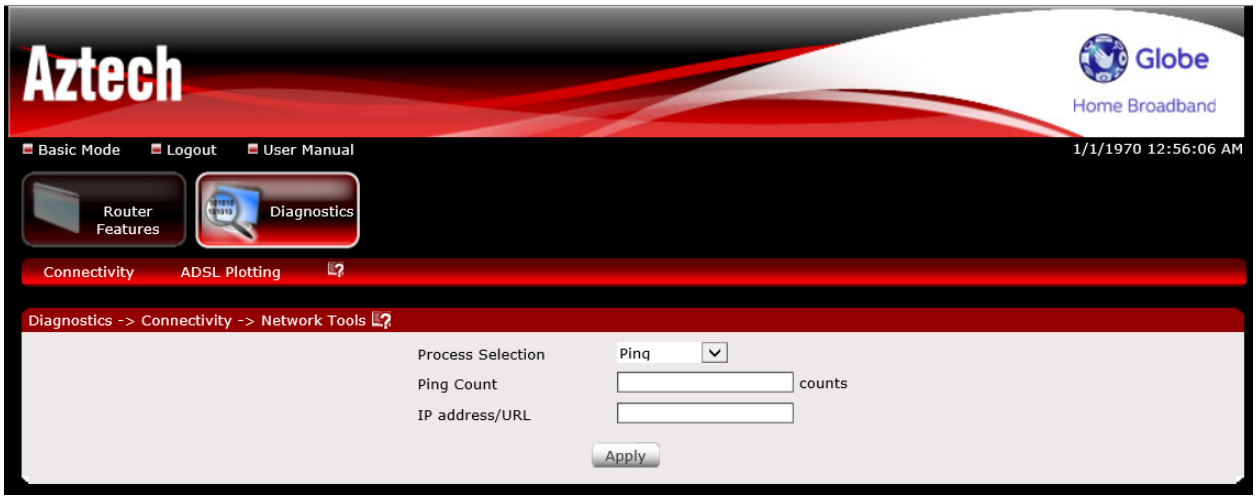


# Advanced Mode– Diagnostics

The Advanced – Diagnostics page provides access to tools that may help you assess your modem's performance. Tools such as ping, traceroute and ADSL plotting are provided in this area.

The Advanced – Diagnostics page contains the following submenus:

- Connectivity
- ADSL Plotting




- **Connectivity.** Allows you to access the network tools that your modem has. This includes the Ping and the Traceroute function.


  - **Ping.** Allows you to check the destination IP address that you want to reach. A feedback would show displaying how long it took the destination IP address to respond and receive a reply.
  - **Traceroute.** Allows you to see the path the traffic takes before it reaches the destination IP address.

- **ADSL Plotting.** Is dependent on your DSL connection and will only be populated by your ISP. Once you have successfully connected to your provider's network, HEX information of your network setup will be shown in this area.

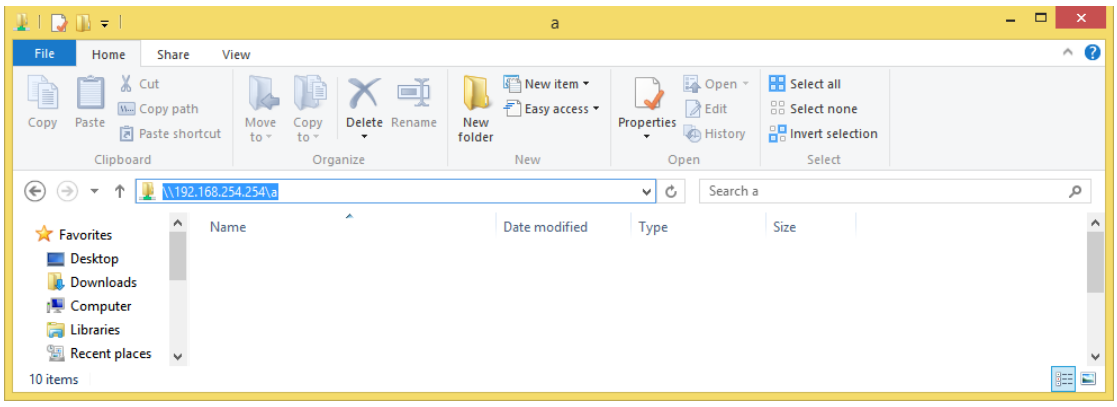
# Other Instructions

## Accessing an External Storage

To access the contents of an external storage (e.g. hard disk / flash drive) connected to your DSL5068EN(1T1R)'s USB port, simply follow the instructions below:

1. Ensure that an external storage (e.g. hard disk / flash drive) is connected on your DSL5068EN(1T1R)'s USB port.
2. On your desktop / laptop connected (wired or wirelessly) to the DSL5068EN(1T1R), open windows explorer (this can be accessed using the keyboard shortcut : windows + e) .

   NOTE: The device wherein you want to access a connected external storage MUST be connected (wired or wirelessly) to your DSL5068EN(1T1R).
3. On your Windows Explorer's Address bar, type in: **\\192.168.254.254\a** then press Enter. You would automatically be redirected to the contents of the external storage connected to your DSL5068EN(1T1R) device.



# Modem Care Tips

1. Do not deface the modem.
2. Do not use any power adapters with the modem other than the supplied adapter as it may damage the device rendering it unusable.
3. Do not allow the modem to get wet; when water gets in contact with the modem, the internal components might corrode and break your modem.
4. Install the modem on a flat surface and ensure that there is enough space for air to circulate.
5. Avoid dropping the modem. Depending on the surface it lands on, the modem can get its casing damaged or its internal components dislodged affecting its functionality.
6. Clean the modem's casing with a soft damp cloth and remove dust that may cover the modem casing's ventilation regularly.
7. Turn off the modem and disconnect the power adapter from the power outlet if it will be unattended for a long time.

# ⚠ Safety Precautions

- Do not open, service, or change any component.
- Only qualified technical specialists are allowed to service the equipment.
- Observe safety precautions to avoid electric shock
- Check voltage before connecting to the power supply. Connecting to the wrong voltage will damage the equipment.