Aztech

USER MANUAL DSL5068EN(1T1R)

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

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Contents

About the Device	5
Minimum System Requirements	7
Package Contents	7
Device Design	8
Front Panel	8
Back Panel	9
Side Panel	9
Getting Started	0
New Features	0
Planning Your Network1	2
Removing/Disabling Conflicts1	3
Internet Sharing, Proxy, and Security Applications	3
Configuring TCP/IP Settings1	4
Configuring Internet Properties1	4
Removing Temporary Internet Files1	5
Setup the Device1	6
The Web User Interface (GUI)1	8
Accessing the Web User Interface1	8
Web User Interface Modes1	9
Switching Modes1	9
Logging In to the Web User Interface2	0
Connecting to the Internet2	0
Basic Mode2	1
Basic – Home	2
Basic – Status	4
Basic – Wireless	7
Advanced Mode	1
Advanced Mode – Router Features	2
Advanced Mode– Diagnostics	6
Other Instructions	8
Accessing an External Storage3	8
Modem Care Tips	9

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	ዑ	OFF Steady green Steady red	No power is supplied to the device Connected to an AC power supply Error on the device
ETHERNET LAN 1-4		OFF Steady green Blinking green	No Ethernet connection Connected to an Ethernet port Transmitting/Receiving data
USB	•	OFF ON	There is no USB device connected to the corresponding USB port. A USB device is connected to the corresponding USB port.
WIRELESS	(;	OFF Steady green Blinking green	Wireless interface disabled Wireless Interface enabled Transmitting/Receiving data
WPS	5	OFF Blinking green	WPS disabled/completed authentication WPS authentication in-progress
DSL	\Box	Blinking green Steady green	Establishing or No DSL signal DSL signal is established
INTERNET		OFF Steady green Blinking green Steady red	No connection to the Internet Internet connection established Transmitting/Receiving data 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 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.



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.
- 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.
- 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 highpitched 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.

Aztech				Globe Home Broadband
Advanced Mode	🗏 User Manual			1/1/1970 12:15:29 AM
Home	Status	LED: Internet Memory usage: CPU usage:	t: DSL: ETH1: ET 48% 1%	142: ETH3: ETH4: WIFI:
Main 🖳				
System		ADSL		
Model Number	DSL5068EN(1T1R)	Operational Status	down	
System Uptime	0 Days 0 Hours 12 Mins 58 Secs	DSL Uptime	N/A	
Firmware Version	342.118.2-004	Downstream Rate	N/A	
Software Version	1.0	Upstream Rate	N/A	
LAN MAC Address	e0:8e:3c:16:6c:1d			
DSL MAC Address	e0:8e:3c:16:6c:1d			
WAN				
Connection Uptime	0			
WAN IP Address	N/A			
Interface	PPPoE LLC			
PPP Username	aztprod4@globelines.com.ph			
WAN DNS IP	N/A			

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



<u>Without logging in</u>, 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.
- 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.

Quicksetup 📭		
	User Name Password	

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.

Aztech			Globe Home Broadband
Advanced Mode E Login	E User Manual Status	LED: Internet: Memory usage: CPU usage:	1/1/1970 12:25:10 AM DSL: ETH1: ETH2: ETH3: ETH4: WIFI: 49% 0%
Main 🗤		ADSL	
Model Number System Uptime Firmware Version Software Version LAN MAC Address DSL MAC Address	DSL5068EN(1T1R) 0 Days 0 Hours 25 Mins 5 Secs 342.118.2-004 1.0 e0:8e:3c:16:6c:1d e0:8e:3c:16:6c:1d	Operational Status DSL Uptime Downstream Rate Upstream Rate	down N/A N/A N/A
WAN			
Connection Uptime WAN IP Address Interface PPP Username WAN DNS IP	0 N/A PPPoE LLC aztprod4@globelines.com.ph N/A		

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		ADSL	
Model Number System Uptime Firmware Version Software Version LAN MAC Address DSL MAC Address	DSL5068EN(1T1R) 0 Days 0 Hours 27 Mins 6 Secs 342.118.2-004 1.0 e0:8e:3c:16:6c:1d e0:8e:3c:16:6c:1d	Operational Status DSL Uptime Downstream Rate Upstream Rate	down N/A N/A N/A
WAN	<u>^</u>		
WAN IP Address	0 N/A		
Interface	PPPoE LLC		
PPP Username	aztprod4@globelines.com.ph		
WAN DNS IP	N/A Connect		

- 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 <u>Connecting to</u> <u>the Internet</u> 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**.
- 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.

Aztech								Home	Glo Broad	be band
Home Device Info	Status Wireless ADSL Statistics	System Lo	LED: Memory usage: CPU usage: og	Internet:	DSL: E	ETH1:	ETH2:	ETH3:	ETH4:	WIFI:
Device Info -> System			Device Info -> ADSL	-						
Model Number System Uptime Firmware Version Software Version	DSL5068EN 0 Days 0 Hours 43 Mins 43 Secs 342.118.2-004 1.0		Operational Status DSL Uptime Downstream Rate Upstream Rate		down N/A N/A N/A					

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.

Device Info -> System		Device Info -> ADSL		
Model Number	DSL5068EN	Operational Status	down	
System Uptime	0 Days 0 Hours 35 Mins 12 Secs	DSL Uptime	N/A	
Firmware Version	342.118.2-004	Downstream Rate	N/A	
Software Version	1.0	Upstream Rate	N/A	
L				

• 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

LAN -> Configuration 📭							
IP Address	192.16	8.254.254					
Subnet Mask	255.25	5.255.0					
MAC Address	e0:8e:	3c:16:6c:1d					
DHCP Server	Enabled						
DHCP Address Range	192.168.254.100 - 192.168.254.200						
LAN -> DHCP Client Table 🛂							
Hostname	IP Address	MAC Address	Expire Time	Туре			

• 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.

Wireless Configuration	
Wireless	Enabled
Mode	802.11b+g+n
Broadcast SSID	Enabled
SSID	Aztech5068_66C1D_Test

 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.

ADSL Description	Status	Status				
ADSL Line State	Down					
ADSL Mode	N/A					
Cell Delin	N/A					
Link Retrain	N/A					
Init Errors	N/A					
Init Timeouts	N/A	N/A				
Loss Of Framing	N/A	N/A				
Errored Seconds	N/A	N/A				
Severely Error Seconds	N/A	N/A				
HEC Error	N/A					
Information	DownStream	Upstream				
SNR Margin	N/A	N/A				
Attenuation	N/A	N/A				
Data Rate	N/A	N/A				
Forward Error Correction Seco	onds N/A	N/A				
CRC Errors	N/A	N/A				
Output Rower	N/A	N/A				

• **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.

LAN Statistics	E ?									
Interface	Packets	Bytes	TX Multicast Frames	Collision	Error Frames	Packets	Bytes	RX Multicast Frames	CRC Errors	Under-size Frames
LAN	20875	13331079	0	0	0	21925	2878839	633	0	0
ADSL Statistic	s 📭									
				тх				RX		
Interf	ace	Packets	Bytes	Error	5	Blocks	Packets	Bytes	Errors	Blocks
ADS	L	0	0	453		N/A	0	0	0	N/A
WLAN Statisti	cs L?									
Interfa	ace	Packets	CR	TX C Errors	Dro	nned	Packets	RX CRC Fr	ors	Dronned
Wirele	SS	13014	- Cit	2	Die	2	99006	57080	17	570807
					Refr	esh				
					Ken	Con				

• **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.

Aztech						Globe Home Broadband
Advanced Mode	Logout 🛛 🗏 User Manua	I				1/1/1970 12:44:41 AM
Home	Status	Wireless		LED: Internet: Memory usage: CPU usage:	DSL: ETH1: ETH2: 56% 6%	ETH3: ETH4: WIFI:
Device Info LAN	N Wireless AD	GL Statistics	System Log	L?		
System Log [Help]						
	SetLEDStatus: Mi [3]mAPMakeBase [3]mRTMPAPQue WPSConfMode is WPSCOnfMode is WPSCOnfMode is WPSCOnfMode [3]mRTMPSetLE [3]mRTMPSetLE [3]mRTMPSetLE [3]mAPMakeBase [3]mAPMAkeBase [3]mAPMAkeBase [3]mAPMAkeBase [3]mAPMAkeBase [3]mAPMAkeB	UCmd:0x50, LED M eacon: bCountryFlay eacon: Line 237[r yInformation: Wsc5 vrong!!! NULL = NULL = NULL Status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00 eacon: bCountryFlay eacon: line 237[r Status: MCUCmd:00 status: MCUCmd:00 status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00 Status: MCUCmd:00	ode:0x1, LinkSta g 0[m n itatus 0[m <col/> <col/> <col/> <col< th=""><th> LinkStatus:0x20[m LinkStatus:0x20[m LinkStatus:0x20[m LinkStatus:0x20[m LinkStatus:0x60[m LinkStatus:0x60[m LinkStatus:0x60[m </th><th></th><th></th></col<>	 LinkStatus:0x20[m LinkStatus:0x20[m LinkStatus:0x20[m LinkStatus:0x20[m LinkStatus:0x60[m LinkStatus:0x60[m LinkStatus:0x60[m 		
			Refresh			

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

Aztech	Globe Home Broadband
🗖 Advanced Mode 🛛 E Logout 🖉 User Manual	1/1/1970 12:45:19 AM
Home Status	LED: Internet: DSL: ETH1: ETH2: ETH3: ETH4: WIFI: Memory usage: 57% CPU usage: 0%
Wireless Settings Security Access Control	
Wireless -> Settings L?	
Wireless Enabled	\checkmark
SSID	Aztech5068_66C1D_Test
Broadcast SSID	Enable Disable
Wireless Mode	802.11b+g+n 🗸
Channel	PHILIPPINES Auto Current Channel : 11
HT Channel Bandwidth	20/40 MHz 🗸
HT Guard Interval	AUTO 🗸
MCS	AUTO 🗸
Extension Channel	above the control channel
Radio Power	100 (range: 1~100)
Maximum Station Number	16 🗸
	Apply
Wireless -> Wireless Client Table	
IP Address	MAC Address

A. Wireless Settings

Wireless Settings	Security Access Control	
Wireless -> Settings 🖺	2	
	Wireless Enabled	\checkmark
	SSID	Aztech5068_66C1D_Test
	Broadcast SSID	● Enable ○ Disable
	Wireless Mode	802.11b+g+n 🗸
	Channel	PHILIPPINES V Auto V Current Channel : 11
	HT Channel Bandwidth	20/40 MHz 💙
	HT Guard Interval	AUTO 🔽
	MCS	AUTO 🗸
	Extension Channel	above the control channel 🗸
	Radio Power	100 (range: 1~100)
	Maximum Station Number	16 🗸
		Apply
Wireless -> Wireless Cl	ient Table	
	IP Address	MAC Address

- 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

Wireless Settings	Security	Access Control						
Wireless -> Security	2							
		SSID index	1 🗸					
		Enable SSID	Enable ODisable					
		SSID	Aztech5068_66C1D_Test					
		Security Mode	WPAPSK					
		Encryption	TKIP/AES 🗸					
		Pre-Shared Key (8~63 characters)	*****					
		WPS	⊖Yes No					
	Apply							

- 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.

Wireless Settings	Security	Access Control	Ľ?	
Wireless -> Access Con	trol 🖳			
		WLAN MAG	C Filter	
		Access Cor	ntrol List Mode (ACL Mode)	Allow 🗸
		MAC Addre	ess 1	
		MAC Addre	ess 2	
		MAC Addre	ess 3	
		MAC Addre	ess 4	
		MAC Addre	ess 5	
		MAC Addre	ess 6	
		MAC Addre	ess 7	
		MAC Addre	ess 8	
			Apply	

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.

Aztech			Globe Home Broadband
Basic Mode Logout User Manual			1/1/1970 12:48:19 AM
Router Features Diagnostics			
Port Forwarding Port Trigerring DDNS Sta	tic Route IP QoS Port Mapping	Bandwidth Limit Bandwidth	Limit Rules Parental Control 🗳
Router Features -> Port Forwarding			
	Single IPs Account,	/ PVC0	
Oselect an application	Select One		
●Games Rules	Select One	\checkmark	
Ocustom application			
Public Port Range	5060 - 5060		
Private Port Range	5060 - 5060		
Local IP Address	192.168.254.101		
Protocol	Both 🗸		
	Apply		
Rule Application Name	Public Public Private Private Start End Start End Port port Port port	Local IP Address Protoco	l Edit Drop
0 voip	5060 5060 5060 5060	192.168.254.101 Both	2 8

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

Aztech			<		Globe
Basic Mode Logout User Manual					1/1/1970 12:48:19 AM
Router Features Diagnostics					
Port Forwarding Port Trigerring DDNS S	tatic Route IP QoS	Port Mapping	Bandwidth Limit	Bandwidth Limit Rules	Parental Control 🛛 🛛 🦻
Router Features -> Port Forwarding					
	5	Single IPs Account	/ PVC0		
Oselect an applicati	on Select One	~			
Games Rules	Select One		\checkmark		
Ocustom application					
Public Port Range	5060 - 5060				
Private Port Range	5060 - 5060				
Local IP Address	192.168.254.101				
Protocol	Both 🗸				
		Apply			
Rule Application Name	Public Public F Start End Port port	Private Private Start End Port port	Local IP Address	i Protocol Edit Dr	ор
0 voip	5060 5060	5060 5060	192.168.254.101	Both 🏼 🖉	

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

ort Forwarding	Port Trigerring	DDNS S	tatic Route	IP Qo	S Port	Mapping	Bandwidth Limit	Bandwidth I	Limit Rules	Parental Co
ter Features -:	Port Forwarding	L?								
					Single II	s Account	/ PVC0			
		t an annlicati	on Select	One	-	- -				
	Obelet	an applicati	on beleec	one	_	<u> </u>				
	●Gam	es Rules	Select	One			\sim			
	Ocusto	om application	n 🦳							
	Public P	ort Range	5060	- 5060						
	Private	Port Range	5060	- 5060						
	Local IF	Address	192.16	192.168.254.101						
	Protoco	I .	Both	•						
				_		Analys				
						Арріу				
			Public	Public	Private	Private				
	Rule	Name	Start	End	Start	End	Local IP Addres	s Protocol	Edit Dr	ор
			Tort	port	1.010	pore				
	0	voip	5060	5060	5060	5060	192.168.254.101	Both	2 6	3
	1	voip2	4000	4000	4000	4000	192,168,254,101	Both	1	

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

Port Forwarding Port Trigerring DDN	S Static Route	IP QoS Port Map	ping Bandw	idth Limit B	andwidth Limit Rules	Parental Control 🗳
Router Features -> Port Triggering						
······································	Applicat	ion : -	_ .			
Active	Triggerin	g Port Range		Opening Por	t Range	
	Start Port End	Port Protoco	Start Po	rt End Port	Protocol	
	0 0	TCP/UDP	✓ 0	0	TCP/UDP V	
	0 0	TCP/UDP	• 0	0	TCP/UDP 🗸	
	0 0	TCP/UDP	✓ 0	0	TCP/UDP 🗸	
	0 0	TCP/UDP	✓ 0	0	TCP/UDP 🗸	
	0 0	TCP/UDP	• 0	0	TCP/UDP 🗸	
	0 0	TCP/UDP	• 0	0	TCP/UDP 🗸	
	0 0	TCP/UDP	v 0	0	TCP/UDP 🗸	
	0 0	TCP/UDP	• 0	0	TCP/UDP 🗸	
		App	ly			
Router Features -> Port Triggering Summa	iry					
Clear	Application	Triggering Port R	ange	Opening F	Port Range	
	Star	t Port End Port	Protocol St	art Port End	d Port Protocol	
	- 0	0	- 0	0	-	
	- 0	0	- 0	0	-	
	- 0	0	- 0	0	-	
	- 0	0	- 0	0	-	
	- 0	0	- 0	0	-	
	- 0	0	- 0	0	-	
	- 0	0	- 0	0	-	
	- 0	0	- 0	0	-	

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

ynamic DNS								
ynamic DNS arvice Provider								
ervice Provider								
	44 44 4	w.dyndns.org 🗸						
y Host Name								
ser Name								
issword								
Apply								
	· Host Name er Name ssword	Host Name er Name ssword er Apply	Host Name er Name ssword Apply	Host Name er Name ssword Apply	Host Name er Name ssword Apply			

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

Port Forwarding	Port Trigerring	DDNS	Static Route	IP QoS	Port Mapping	Bandwidth Lin	nit	Bandwidth Limit Rules	Parental Contro
uter Features - :	Routing								
	5 -								
	Destinatio	on IP	Network M	ask	Gateway	Interf	ace	Metric	Delete
	192.168.254.	0	255.255.255.0		0.0.0.0	PVC0	>	0	
	127.0.0.0		255.255.0.0		0.0.0.0	PVC0	\sim	0	
	239.0.0.0		255.0.0.0		0.0.0.0	PVC0	\sim	0	
	Add Apply Cancel								
				_					

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

Port Forwarding	Port Trigerring	DDNS	Static Route	IP QoS	Port Mapping	Bandwidth Limit	Bandwidth Limit Rules	Parental Control	Ľ?
Router Features ->	IP QoS 🖳								
			QoS		✓				
			Discipline		Strict Prio	rity 🗸			
			WRR weight						
			Highest		8 (valid	1-15)			
			High		4 (valid	1-15)			
			Medium		2 (valid	1-15)			
			Low		1 (valid	1-15)			
			Discipline S	ave	Rule-Act	ion Summary			
			Rule Index		0 🗸				
			Active		\checkmark				
			Application		~				
			Physical Ports	3	Zeth0 Z	eth1 🗹 eth2 🗹 eth3			
					√ ra0 □ra	1 🗆 ra2 🔤 ra3			
			Destination M	IAC					
			Dest IP						
			Dest Mask						
			Dest Port Ran	ige	80 ~ 8	30			
			Source MAC						

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

Port Forwarding	Port Trigerring	DDNS	Static Route	IP QoS	Port Mapping	Bandwidth Limit	Bandwidth Limit Rules	Parental Control	
Router Features ->	Dort Manning								
Router reatures ->	Porc Happing Eg								
	Active			OActivat	ed Opeactivate	d			
	Group In	dex		0 🗸					
	ATM VCs			Port #	1234567				
	Ethernet			Port #	234				
	WLan			Port #	234				
					Apply Dele	te			
Router Features ->	Port Mapping Su	mmarv							
			Group	10		Group port			

 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.

Port Forwarding	Port Trigerring	DDNS	Static Route	IP QoS	Port Mapping	Bandwidth Limit	Bandwidth Limit Rules	Parental Control 🛛 🛛 🖓
Poutor Fostures	Randwidth Limit	12						
Router reatures 5	· Danuwiden Einne	-p						
		Ba	ndwidth Limit		\checkmark			
		Eg	ress Bandwidth		1000		Kbps	
		In	gress Bandwidth	n	5000		Kbps	
					Apply			

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.

Port Forwarding	Port Trigerring	DDNS	Static Rou	te IP QoS	Port Mapping	Bandwidth Limit	Bandwidt	h Limit Rules	Parental Contr	ol 📭
Router Features -	> Bandwidth Limiti	ing Rules (?							
	Rule Index			0 🗸						
	Enable									
	IP Range			0.0.0.0	- 0.0.0	0.0				
	Destination Port R	lange			-					
	Protocol			Both 🗸						
				Min Bandwidtl	h(Kbps) M	ax Bandwidth(Kb	ps)			
	Egress Bandwidth			· · · · · · · · · · · · · · · · · · ·						
	Ingress Bandwidth			·						
					Apply					
				Min	Мах	Min	Max			
	Rule Active	Start End IP IP	I Start Port	ind Egree	55 Egress	Ingress Randwidth	MdX Ingress Pandwidth	Protocol	Edit Delete	
				Bandw			banawidui			

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

Aztech			Globe Home Broadband
Basic Mode Logout User Manual Router Features Diagnostics Connectivity ADSL Plotting			1/1/1970 12:56:06 AM
Diagnostics -> Connectivity -> Network Tools L?	Process Selection Ping Count IP address/URL	Ping V counts	

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

Connectivity	ADSL Plotting									
Diagnostics -> Co	nnectivity -> Netwo	rk Tools 🖳								
			Process Selection Ping Count IP address/URL	Ping V counts						
	Apply									

- **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.

Connectivity	ADSL Plotting	L2
Diagnostics -> AD	SL Plotting 🖳	
		Refresh

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.
- 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).

 On your Windows Explorer's Address bar, type in: <u>\\192.168.254.254\a</u> then press Enter. You would automatically be redirected to the contents of the external storage connected to your DSL5068EN(1T1R) device.

🖳 l 💽 🕼 🖛 l		а	- 🗆 🗙
File Home Share V	ïew		^ (2
Copy Paste Shortcut	Move Copy to * Copy	New folder Properties → History	Select all Select none
Clipboard	Organize	New Open	Select
🔄 ⋺ 🝷 ↑ 📜 \\192.168.2	54.254\a	V 🖒 Search	a ,Q
★ Favorites Mare Nare Nare Nare Nare Nare Nare Nare N	me	Date modified Type	Size
[북 Computer (금 Libraries 웹 Recent places v 10 items			

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.
- 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.

\land 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.



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