

User Manual

Aztech DSL5018EN

4-Port ADSL 2/2+ 150 Mbps Wireless-N

Modem Router

V1.0

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About the Device

The Aztech DSL5018EN 4-Port ADSL2+ 150Mbps Wireless-N Modem Router with USB host uses complete Ralink chipsets solution that fully complies with ADSL2/ADSL2+ standard.

The Aztech DSL5018EN supports 1T1R MIMO technology with PHY rate up to 150Mbps.

Targeted the residential and SOHO users that desires high quality triple play services, it is the ideal solution to provide a 6 in 1 device for both Wired and Wireless connectivity via a ADSL2+ built in modem, Routing functionality for multi-user sharing, double-layer NAT/SPI firewall, 4 port 10/100 AutoMDI/MDIX Managed Switch for video application QoS, high speed IEEE802.11b/g/n Wireless LAN Access Point and USB host for storage and print sharing.

Aztech DSL5018EN complies with Broadband Forum's TR069 for remote management, remote configuration and zero touch set up that allows cost saving on customer support and logistics.

Security is provided via a double Stateful Packet Inspection and NAT based firewall. Hardware accelerated AES/WEP/WPA/WPA2 based encryption/MAC Address Filtering for Wireless links. Multiple session VPN Pass-through and DMZ support provide additional security support for telecommuters as well as allow flexibility while maintaining security against malicious hackers. Choices of Dynamic DNS server give users the flexibility of hosting a web or an FTP server with various domain names.

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






Package contents are listed below. For any missing items, please contact your dealer immediately. Product contents vary for different models.

- Router
- Ethernet cable
- Telephone cable
- POTS Splitter/Microfilter (optional)
- 12V 1.0A DC Power Adapter
- Easy Start Guide

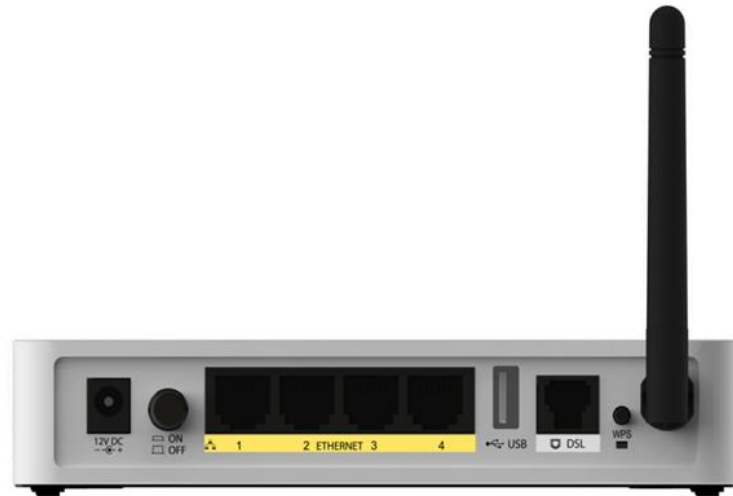
Device Design

Front Panel



LABEL	ICON	ACTION	DESCRIPTION
1. POWER		Off Steady green Steady red	No power is supplied to the device Connected to an AC power supply Error on the device
2. ETHERNET LAN		Off Steady green Blinking green	No Ethernet connection Connected to an Ethernet port Transmitting/Receiving data
3. WIRELESS		Off Steady green Blinking green	Wireless interface disabled Wireless Interface enabled Transmitting/Receiving data
4. DSL		Blinking green Steady green	Establishing or No DSL signal DSL signal is established
5. INTERNET		Off Steady green Blinking green Steady red	No connection to the Internet Internet connection established Transmitting/Receiving data PPP authentication failed

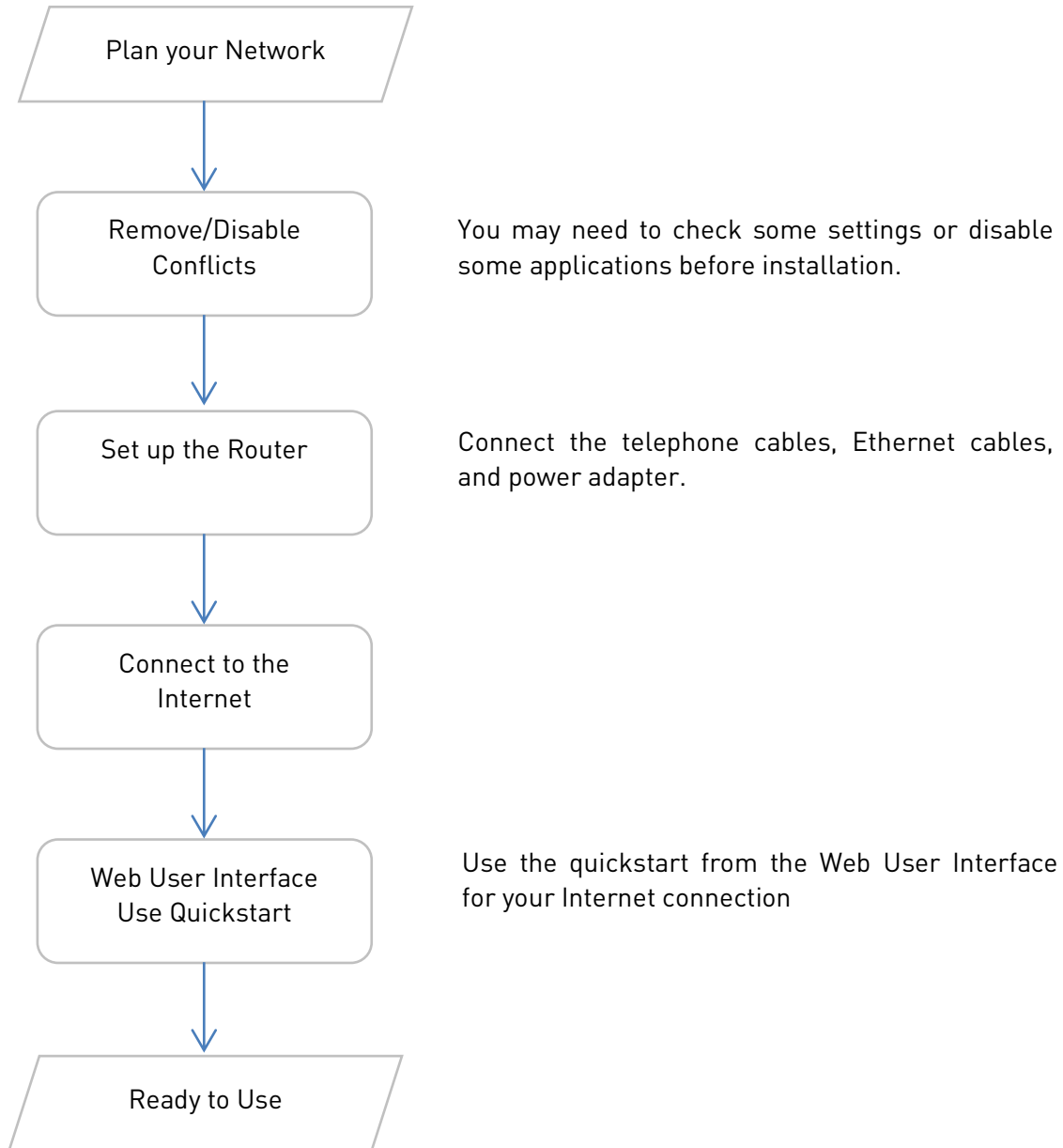
Back Panel



LABEL	DESCRIPTION
1. 12VDC	12V 1.0A DC Input port
2. ON/OFF	Power ON/OFF button
3. ETHERNET	Connecting computers and other Ethernet devices (RJ45)
4. USB	Connecting USB storage or printer
5. DSL	Connecting the modem to an ADSL line (RJ11)
6. WPS	To setup wireless security with WPS-capable clients
7. ANTENNA	Fixed Wifi Antenna
8. RESET	Underneath the modem

Getting Started

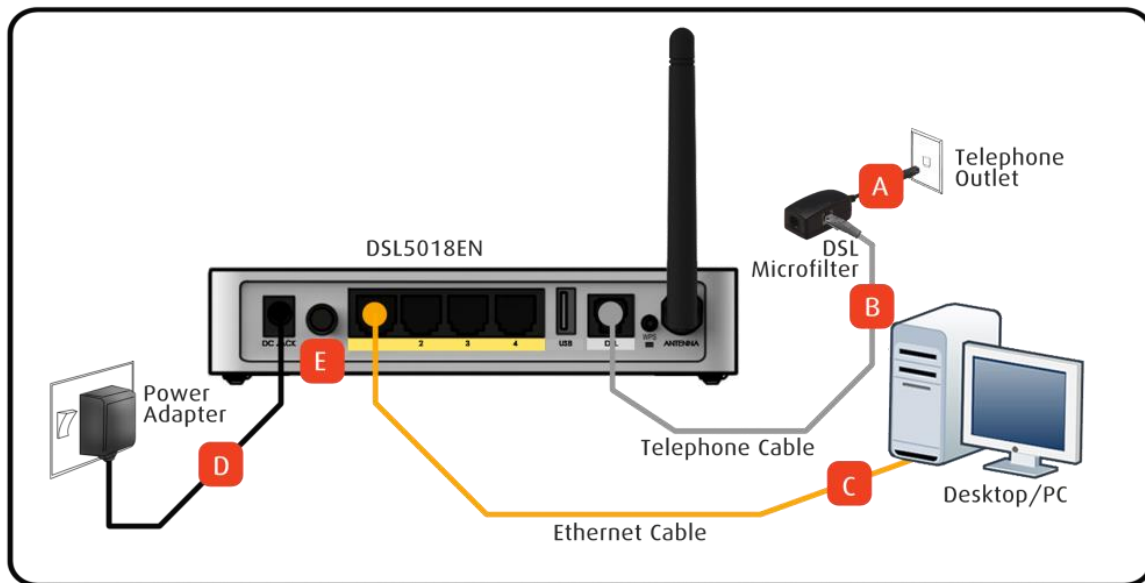
Setting up the device is easy. The flowchart below provides an outline of the steps needed to complete the installation. Brief descriptions appear beside each step. Detailed instructions are provided in the subsequent pages.



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.

Hardware Setup Diagram



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

- Ethernet 1 – connect to a desktop
- Ethernet 2 – connect to a set top box
- Ethernet 3 – connect to a Smart TV
- Ethernet 4 – connect to a Game console
- 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 router port you want to use for each device.

Remove or Disable Conflicts

To ensure that the router 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 router 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 WinProxy	Symantec 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. This opens the Run dialog box.
2. Enter control ncpa.cpl and then click OK. This opens the Network Connections in your computer.
3. Right-click LAN and then select Properties. This opens the Local Area Connection Properties dialog box.
4. Select Internet Protocol (TCP/IP) and then click Properties. This opens the Internet Protocol (TCP/IP) dialog box.
5. Select Obtain an IP address automatically.
6. Click OK to close the Internet Protocol (TCP/IP) dialog box.
7. Click OK 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. This opens Internet Properties.
3. Click Connections tab.
4. In 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. This opens the Run dialog box.
2. Enter control and then click OK. This opens Control Panel.
3. Double-click Internet Options. This opens Internet Options.
4. 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 router, find an area where there are enough electrical outlets for the router, the main computer, and your other computer devices.

To setup the router:

1. Plug one end of the Ethernet cable from the router's Ethernet port and then plug the other end into the Ethernet port of your computer.
2. If you have another device you need to connect through wire into the router, 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 router. (Applicable for multi-port devices)
3. Plug one end of the telephone cable from the POTS Splitter's ADSL port and then plug the other end into the router's DSL port.

POTS Splitter (DSL Microfilter)

Your phone line carries 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 your phone call signals and internet signals which 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.
4. Connect the power adapter from the router's 12V 1.0A DC port into the power outlet.
 5. Press the ON/OFF switch to turn on the device.

The Web User Interface (GUI)

The layout and content positioning of the device's web user interface is mapped below.

The screenshot displays the Aztech web user interface (GUI) with a red and black theme. The interface includes a navigation bar with 'Home', 'Wizard', and 'Quick Setup' buttons, and a status bar with 'Advanced Mode' and 'Reboot' options. The main content area is divided into four panels: Internet Connection, LAN Connection, Wireless Connection, and Local Network.

Internet Connection

ADSL Line Status	DOWN
Connection Status	Not Connected
Connection Type	Dynamic IP
WAN IP Address	N/A
WAN MAC Address	00:AA:BB:01:23:45

LAN Connection

LAN MAC Address	00:AA:BB:01:23:45
LAN IP Address	192.168.1.1
LAN Net Mask	255.255.255.0
DHCP Server	Enable

Wireless Connection

SSID	bayanDSL
Broadcast SSID	Enable
WLAN MAC Address	00:AA:BB:01:23:45
Wireless Mode	802.11b+g+n
Security	WPA-PSK/WPA2-PSK

Local Network

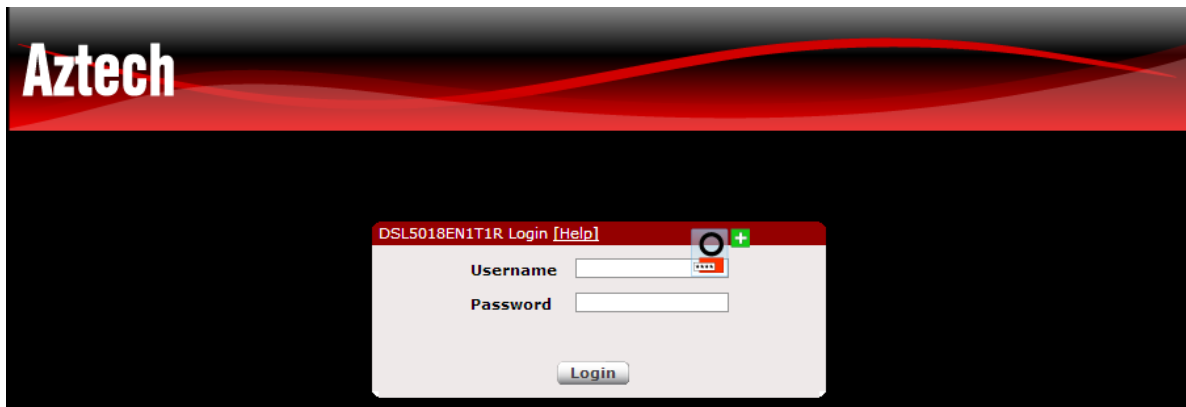
Hostname	IP Address	MAC Address	Expire Time
PC	192.168.1.2	B8:AC:6F:61:32:E2	0 Days 23:59:33

Connecting to the Internet

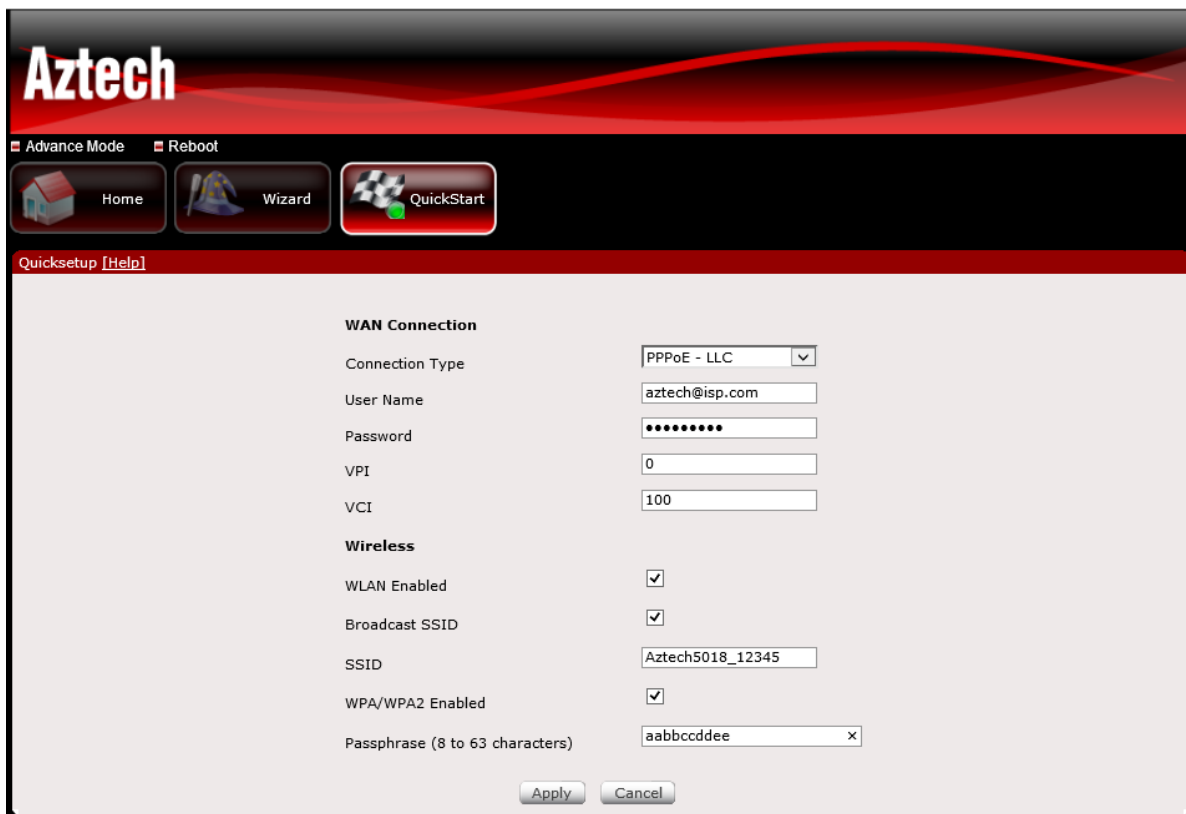
You can use the web user interface to setup your Internet connection.

Connecting using Quick Setup

1. Launch the web browser.
2. Input 192.168.1.1 on the address bar and press enter.
3. Input 'admin' for username and 'admin' for password. Click the Login button.



4. Click Quick Setup on the Basic menu. For steps 5, 6 and 7 refer to the Web User Interface mapped below:



5. Under WAN Connection
 - a. Select Connection Type
 - b. Input VPI and VCI on the required field.

(Note: Please refer to your Internet Service Provider for the information needed on the required field).

6. Under Wireless
 - a. Tick WLAN Enabled box to enable the wireless interface.
 - b. Tick Broadcast SSID to broadcast Wireless Name.
 - c. SSID input the Wireless Name on the required field.
 - d. Tick WPA/WPA2 Enabled to enable the wireless security
 - e. Passphrase input the Wireless SSID on the required field.
7. Click the Apply button to save the settings.

Basic Mode

Basic Mode displays pages with information about the device and its current configuration.

Basic – Home

This section of the web user interface displays information about of the Internet, LAN, Wireless Connection, Local Network, Storage and Printer status.

The screenshot displays the Aztech web user interface. At the top, there is a navigation bar with 'Home', 'Wizard', and 'QuickStart' buttons. Below this, the interface is divided into several sections:

- Internet Connection:** Shows ADSL Line Status as DOWN, Connection Status as Not Connected, Connection Type as PPPoE, WAN IP Address as N/A, and WAN MAC Address as 00:aa:bb:01:23:45.
- LAN Connection:** Shows LAN MAC Address as 00:aa:bb:01:23:45, LAN IP Address as 192.168.1.1, LAN Net Mask as 255.255.255.0, and DHCP Server as Enable.
- Wireless Connection:** Shows SSID as Aztech5018_TINA, Broadcast SSID as Enable, WLAN MAC Address as 00:aa:bb:01:23:45, Wireless Mode as 802.11b+g+n, and Security as WPA-PSK/WPA2-PSK.
- Local Network:** A table listing connected devices:

Hostname	IP Address	MAC Address	Expire Time
product	192.168.1.2	6C:3B:E5:18:BE:B9	2 Days 12:10:27
KristinaDizon	192.168.1.5	F4:B7:E2:CA:96:7B	2 Days 23:36:46
GraceAvillano	192.168.1.4	F4:B7:E2:CA:96:73	0 Days 17:28:45
WIPC408HD	192.168.1.11	00:26:75:8B:44:42	2 Days 14:42:18
- Storage:** No storage device found.
- Printer:** No printer device found.

Internet Connection. Provides details of the Internet connection.

LAN Connection. Provides details of Local Area Network connection.

Wireless Connection. Provides an overview of the Wireless connection information.

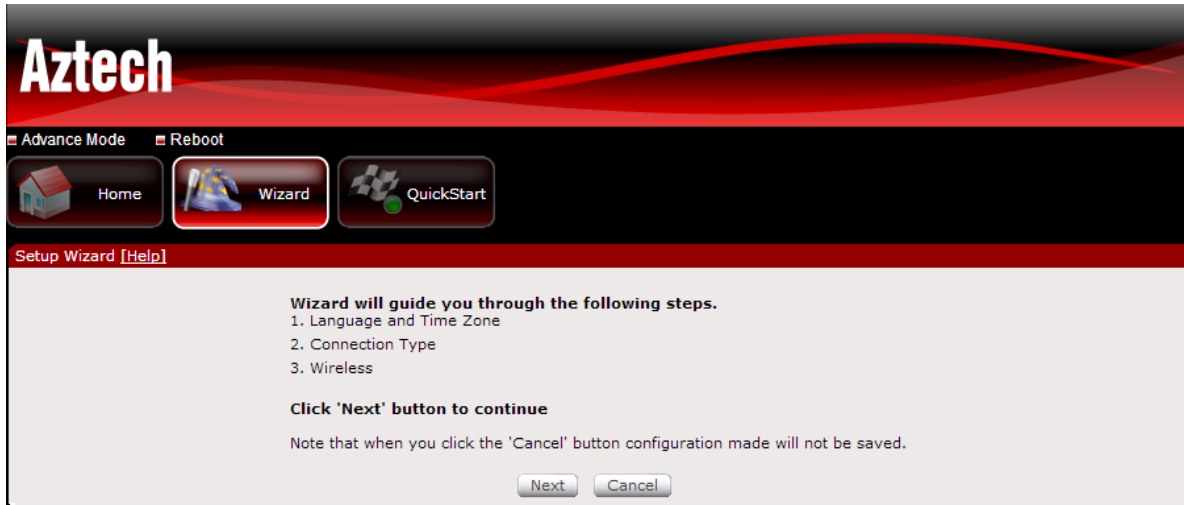
Local Network. Provides information of the local devices connected to the network.

Storage. Provides information of the storage device connected to the modem.

Printer. Provides information of the printer device connected to the modem.

Basic -Wizard

This section of the web user interface guides user to setup their device to access the Internet and set wireless connection.



Basic – Quick Setup

This section of the web user interface displays allows user to configure Time and Date WAN and Wireless connection.

The screenshot shows the Aztech QuickSetup web interface. At the top, there is a navigation bar with 'Home', 'Wizard', and 'QuickStart' buttons. Below this, the 'Quicksetup [Help]' section is visible. The main configuration area is divided into two sections: 'WAN Connection' and 'Wireless'.

WAN Connection

- Connection Type: PPPoE - LLC (dropdown menu)
- User Name: aztech@isp.com
- Password: [masked]
- VPI: 0
- VCI: 100

Wireless

- WLAN Enabled:
- Broadcast SSID:
- SSID: Aztech5018_1234
- WPA/WPA2 Enabled:
- Passphrase (8 to 63 characters): aabbccddeef [clear]

At the bottom of the configuration area, there are 'Apply' and 'Cancel' buttons.

WAN Connection. Allows user to set the WAN connection type.

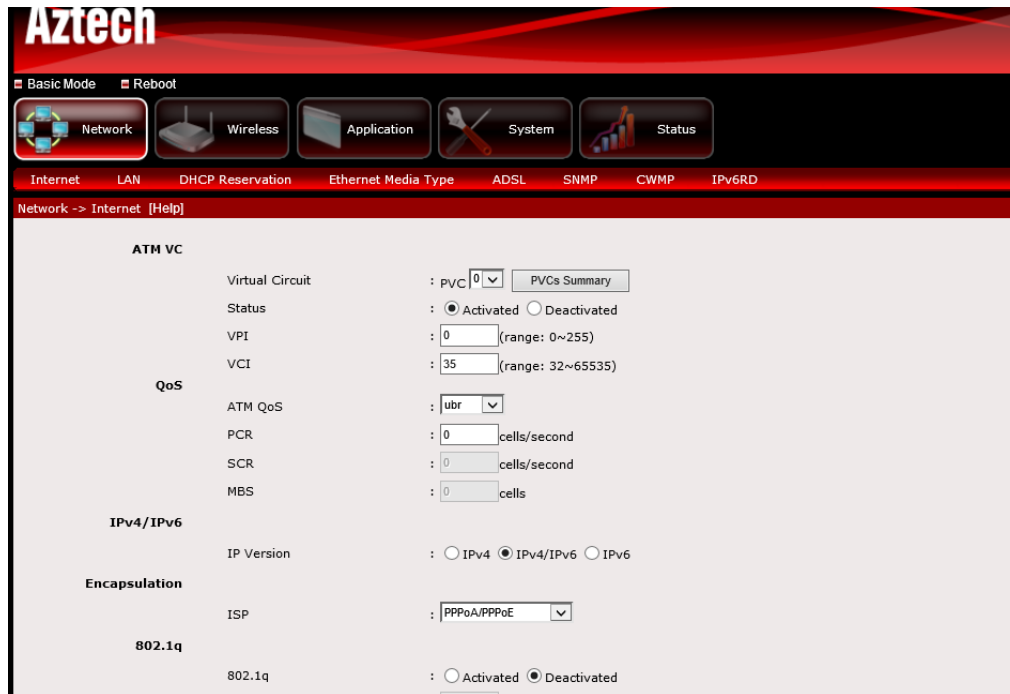
1. **Connection Type.** Allows you to change the default Internet Connection type. Verify with your Internet Service Provider your Internet Connection Type before changing the configuration.
2. **VPI/VCI.** Allows you to change the default VPI/VCI set on the modem. Verify with your internet Service Provider your VPI/VCI before changing the configuration.

Wireless. Displays the default configuration of the built in wireless access point.

1. **WLAN Enabled.** Allows you to enable or disable the wireless connection of the device.
2. **Broadcast SSID.** Allows you to Broadcast or Hide the Wireless SSID.
3. **SSID.** Allows you to change the default wireless network name set on the device.
4. **Security Mode.** Allows you to change the default wireless security set on the device.
5. **Encryption Mode.** Allows you to change the wireless security set on the device.
6. **Pre-Shared Key.** Allows user to set the wireless password set on the device.

Advanced Mode

The Advanced Mode page can be accessed from the Basic page by clicking on Advanced Mode.




Advanced Mode – Network

The initial page will show all the settings of your existing WAN connection configured on the router.

Network>Internet

This page allows user to configure the default WAN settings of the modem/router.



Basic Mode Reboot

Network Wireless Application System Status

Internet LAN DHCP Reservation Ethernet Media Type ADSL SNMP CWMP IPv6RD

Network -> Internet [Help]

ATM VC

Virtual Circuit : PVC 0

Status : Activated Deactivated

VPI : 0 (range: 0~255)

VCI : 35 (range: 32~65535)

QoS

ATM QoS : ubr

PCR : 0 cells/second

SCR : 0 cells/second

MBS : 0 cells

IPv4/IPv6

IP Version : IPv4 IPv4/IPv6 IPv6

Encapsulation

ISP : PPPoA/PPPoE

802.1q

802.1q : Activated Deactivated

VLAN ID : 0 (range: 0~4095)

PPPoE/PPPoA

Username : aztprod4@globelines.com.ph

Password :

Encapsulation : PPPoE LLC

PPP Authentication : AUTO

Bridge Interface : Activated Deactivated

Connection Setting

Connection : Always On (Recommended)
 Connect Manually

TCP MSS Option : 0 bytes (0 means use default)

IP Common Options

Default Route : Yes No

IPv4 Options

Get IP Address : Static Dynamic

Static IP Address : 0.0.0.0

IP Subnet Mask : 0.0.0.0

Gateway : 0.0.0.0

NAT : Enable

Dynamic Route : RIP1 Direction None

TCP MTU Option : 0 bytes (0 means use default:1492)

IGMP Proxy : Enable Disabled

IPv6 Options

DHCP IPv6 Mode : DHCP SLAAC

DHCP PD Enable : Enable Disable

MLD Proxy : Enable Disable

To add a WAN interface:

1. Select an available Virtual Circuit from the drop-down box
2. Enter VPI/VCI settings (provided by your ISP)
3. Input QoS settings (provided by your ISP)
4. Select the IPv4/IPv6 version
5. Select the WAN Connection Type
6. For PPP enter PPP Username and Password (provided by your ISP)
7. Bridge Interface should be deactivated.
8. Connection Setting should be 'Always on'.
9. Ensure Default Route is selected as Yes
10. Ensure Get IP Address is set to Dynamic
11. Ensure NAT is 'Enable'.
12. For IPv6 Option check with your Internet Service Provider the settings required.
13. Click the Apply button to commit the settings

To edit an existing WAN interface:

1. Select the Virtual Circuit that you want to Edit from the drop down box
2. Make the necessary amendments
3. Click the Apply button to commit the settings

Network>LAN

Configure the DSL Router IP Address and Subnet Mask for LAN interface. You may also configure the DHCP server and Public IP Pass Through settings of your router. This page also displays the DHCP Client list connected to the modem/router.

Aztech

Basic Mode Reboot

Network Wireless Application System Status

Internet LAN DHCP Reservation Ethernet Media Type ADSL SNMP CWMP IPv6RD

Network -> LAN [Help]

Router Local IP

IP Address : 192.168.1.1

IP Subnet Mask : 255.255.255.0

Alias IP Address : 192.168.2.1 (0.0.0.0 means to close the alias ip)

Alias IP Subnet Mask : 255.255.255.0

IgmpSnoop : Activated Deactivated

Dynamic Route : RIP1 Direction None

DHCP

DHCP : Disabled Enabled Relay

Start IP : 192.168.1.2

IP Pool Count : 253

Lease Time : 259200 seconds (0 sets to default value of 259200)

DNS

DNS Relay : Automatically Manually

Primary DNS : N/A

Secondary DNS : N/A

DHCP Clients List

#	HostName	IP	MAC Address	Expire Time
1	product	192.168.1.2	6C:3B:E5:18:BE:B9	2days 6:24:39
2	WIPC408HD	192.168.1.11	00:26:75:8B:44:42	1days 23:53:30
3	product	192.168.1.7	00:26:75:8D:29:BD	2days 1:58:19
4	product	192.168.1.3	F4:B7:E2:CA:96:7B	2days 23:43:5
5	product	192.168.1.4	F4:B7:E2:CA:96:73	2days 4:41:6

IPv6 Address

IPv6 Global Address : /

Radvd

Radvd Enable : Disable Enable

Radvd Mode : Auto Manual

RA Flags Set : ManagedAddr off OtherConfig on

DHCPv6

DHCPv6 Server : Disable Enable

DHCPv6 Mode : Auto Manual

APPLY CANCEL

Network>DHCP Reservation

Allows you to reserve an IP address for a specific device connected to the modem/router.



The screenshot shows the Aztech web interface. At the top, the 'Aztech' logo is displayed. Below it, there are navigation tabs: 'Basic Mode' and 'Reboot'. A menu bar contains icons for 'Network', 'Wireless', 'Application', 'System', and 'Status'. A secondary menu bar lists various network settings: 'Internet', 'LAN', 'DHCP Reservation' (highlighted), 'Ethernet Media Type', 'ADSL', 'SNMP', 'CWMP', and 'IPv6RD'. The main content area is titled 'Network -> Add DHCP Reservation [Help]'. It features two input fields: 'IP Address : []' and 'MAC Address : []'. Below these is a table with four columns: 'Index', 'IP', 'MAC', and 'Drop'. At the bottom of the form are 'APPLY' and 'CANCEL' buttons.

Network> Ethernet Media Type

Allows you to change the speed at which the Ethernet Ports should operate on. Click Apply for the settings to take effect.



The screenshot shows the Aztech web interface. At the top, the 'Aztech' logo is displayed. Below it, there are navigation tabs: 'Basic Mode' and 'Reboot'. A menu bar contains icons for 'Network', 'Wireless', 'Application', 'System', and 'Status'. A secondary menu bar lists various network settings: 'Internet', 'LAN', 'DHCP Reservation', 'Ethernet Media Type' (highlighted), 'ADSL', 'SNMP', 'CWMP', and 'IPv6RD'. The main content area is titled 'Network -> Ethernet Media Type [Help]'. It features four rows of settings for 'Port 1', 'Port 2', 'Port 3', and 'Port 4', each with a dropdown menu currently set to 'Auto'. At the bottom of the form are 'APPLY' and 'CANCEL' buttons.

Network> ADSL

Allows you to select the ADSL Mode and Type required by their Internet Service Provider.



Network> SNMP

Allows you to configure SNMP settings, type the SNMP information on the required field and click Apply for the settings to take effect.



Network> CWMP

Allows the Internet Service Provider to manage the device via remotely. Input the information on the required field and click apply for the settings to take effect.



The screenshot shows the Aztech web interface with the 'CWMP' configuration page selected. The page has a red header with the Aztech logo and navigation tabs for Internet, LAN, DHCP Reservation, Ethernet Media Type, ADSL, SNMP, CWMP, and IPv6RD. The CWMP configuration fields are as follows:

CWMP	:	<input checked="" type="radio"/> Activated <input type="radio"/> Deactivated
URL	:	<input type="text" value="http://122.193.99.166:80/entry_basic/node1/tr069"/>
User Name	:	<input type="text" value="basic"/>
Password	:	<input type="text" value="basic"/>
Path	:	<input type="text" value="/tr69"/>
User Name	:	<input type="text" value="123"/>
Password	:	<input type="text" value="123"/>
Periodic Inform	:	<input checked="" type="radio"/> Activated <input type="radio"/> Deactivated
Interval	:	<input type="text" value="5000"/>

Buttons: APPLY, CANCEL

Network> IPv6RD

Allows Internet service Provider to configure IPv6 settings. Input the information on the required field and click Apply for the settings to take effect.



The screenshot shows the Aztech web interface with the 'IPv6RD' configuration page selected. The page has a red header with the Aztech logo and navigation tabs for Internet, LAN, DHCP Reservation, Ethernet Media Type, ADSL, SNMP, CWMP, and IPv6RD. The IPv6RD configuration fields are as follows:

6RD Tunnel	:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
6rd IPv6 Prefix	:	<input type="text" value="2001:55c::"/> / <input type="text" value="32"/>
IPv4 Addr	:	<input type="text" value="58.211.230.102"/>
IPv4 Mask Length	:	<input type="text" value="0"/>
6RD Border Relay IPv4Addr	:	<input type="text" value="69.252.80.66"/>
6rd Prefix Delegation	:	<input type="text" value="2001:55c:3ad3:e668::/64"/>

Buttons: APPLY, CANCEL

Advanced – Wireless

This page allows user to change the default configuration of the Wireless LAN connection set on the modem.

Aztech

Basic Mode Reboot

Network Wireless Application System Status

Basic Security MAC Address Filter

Wireless -> Basic [Help]

Access Point Settings

Access Point : Activated Deactivated

Channel : SINGAPORE Current Channel :

Beacon Interval : (range: 20~1000)

RTS/CTS Threshold : (range: 1500~2347)

Fragmentation Threshold : (range: 256~2346, even numbers only)

DTIM : (range: 1~255)

Wireless Mode :

Station Number : (range: 0~31, 0 means no limit)

11n Settings

Channel Bandwidth :

Guard Interval :

MCS :

BSS Coexistence : Enable Disable

SSID Settings

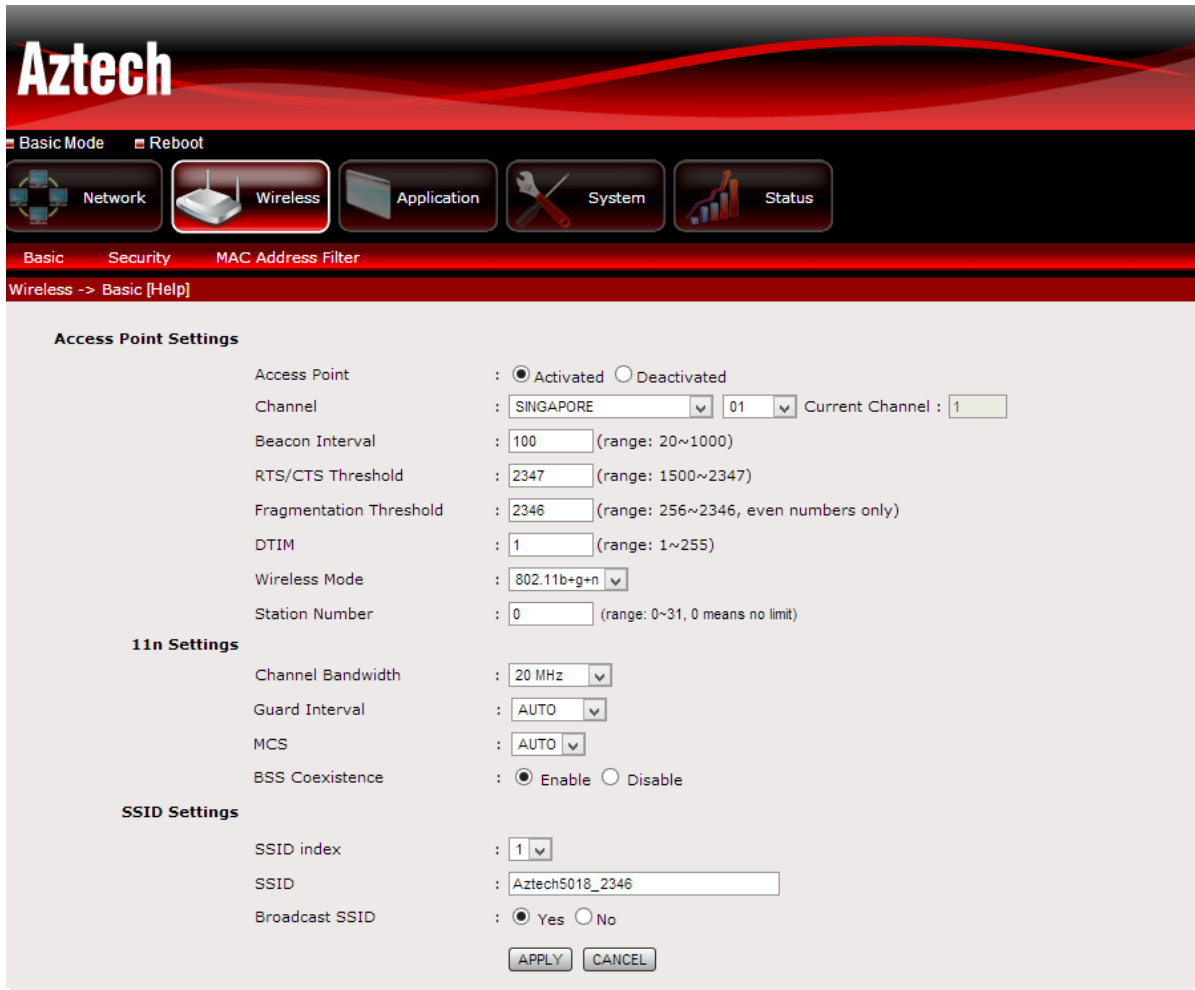
SSID index :

SSID :

Broadcast SSID : Yes No

Wireless> Basic

Allows you to change the default Wireless Configuration set on the device. Access Point settings allows you to Enable or Disable the wireless interface. 11.n settings allows you to change the wireless channel bandwidth. SSID settings allows user to change or keep Wireless name that is being broadcasted by the device. Click Apply for the settings to take effect.



Aztech

Basic Mode Reboot

Network Wireless Application System Status

Basic Security MAC Address Filter

Wireless -> Basic [Help]

Access Point Settings

Access Point	:	<input checked="" type="radio"/> Activated <input type="radio"/> Deactivated
Channel	:	SINGAPORE 01 Current Channel : 1
Beacon Interval	:	100 (range: 20~1000)
RTS/CTS Threshold	:	2347 (range: 1500~2347)
Fragmentation Threshold	:	2346 (range: 256~2346, even numbers only)
DTIM	:	1 (range: 1~255)
Wireless Mode	:	802.11b+g+n
Station Number	:	0 (range: 0~31, 0 means no limit)

11n Settings

Channel Bandwidth	:	20 MHz
Guard Interval	:	AUTO
MCS	:	AUTO
BSS Coexistence	:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

SSID Settings

SSID index	:	1
SSID	:	Aztech5018_2346
Broadcast SSID	:	<input checked="" type="radio"/> Yes <input type="radio"/> No

APPLY CANCEL

Wireless> Security

This page allows you to change the default Wireless Security set on the modem. This also allows you to enable/disable the WPS feature, click Apply for the settings to take effect.

The screenshot shows the Aztech modem's web interface. At the top, the Aztech logo is displayed. Below it, there are navigation tabs: Basic Mode, Reboot, Network, Wireless, Application, System, and Status. The 'Wireless' tab is selected. Underneath, there are sub-tabs: Basic, Security, and MAC Address Filter. The 'Security' sub-tab is active, showing the 'Wireless -> Security [Help]' page.

The configuration page includes the following settings:

- Use WPS**: Yes No
- WPS Settings**
 - WPS state**: Configured
 - WPS mode**: PIN code PBC
 - Start WPS** button
 - WPS progress**: Idle
 - Reset to OOB** button
 - Authentication Type**: WPAPSKWPA2PSK (dropdown)
- WPA-PSK**
 - Encryption**: TKIPAES (dropdown)
 - Pre-Shared Key**: AZTECH987 (text input, note: 8~63 characters or 64 Hex string)
 - Key Renewal Interval**: 10 seconds (0 ~ 4194303)

At the bottom of the configuration area, there are **APPLY** and **CANCEL** buttons.

Wireless> MAC Address Filter

This page allows you to control which wireless clients will be Allowed or Denied access connection to the modem by entering the MAC address of the wireless client to the Access control list. Click Apply for the settings to take effect.

The screenshot shows the Aztech modem's web interface. The top navigation bar includes 'Basic Mode' and 'Reboot'. Below it are icons for 'Network', 'Wireless', 'Application', 'System', and 'Status'. The 'Wireless' icon is highlighted. The main menu shows 'Basic', 'Security', and 'MAC Address Filter', with 'MAC Address Filter' selected. The breadcrumb trail is 'Wireless -> MAC Address Filter [Help]'. The configuration area includes:

- Active: Activated Deactivated
- Action: the follow Wireless LAN station(s) association.
- Mac Address #1:
- Mac Address #2:
- Mac Address #3:
- Mac Address #4:
- Mac Address #5:
- Mac Address #6:
- Mac Address #7:
- Mac Address #8:

At the bottom are 'APPLY' and 'CANCEL' buttons.

Advanced – Applications

Allows you to change/set the modem's application features.

The screenshot shows the Aztech modem's web interface. The top navigation bar includes 'Basic Mode' and 'Reboot'. Below it are icons for 'Network', 'Wireless', 'Application', 'System', and 'Status'. The 'Application' icon is highlighted. The main menu shows 'DDNS', 'ACL', 'Filter', 'Routing', 'NAT', 'QoS', 'Port Mapping', 'Parental', and 'Firewall', with 'DDNS' selected. The breadcrumb trail is 'Application -> Dynamic DNS [Help]'. The configuration area includes:

- Dynamic DNS: Activated Deactivated
- Service Provider:
- My Host Name:
- Username:
- Password:
- Wildcard support: Yes No

At the bottom is a 'SAVE' button.

Application > DDNS

This page allows you to set a static host name with a Dynamic IP address. Input the information on the required box click Save for the settings to take effect.

The screenshot shows the Aztech web interface with the 'Application' menu selected. The breadcrumb trail is 'Application -> Dynamic DNS [Help]'. The configuration fields are as follows:

- Dynamic DNS: Activated Deactivated
- Service Provider:
- My Host Name:
- Username:
- Password:
- Wildcard support: Yes No

A 'SAVE' button is located at the bottom of the form.

Application> ACL

This feature allows you to configure access rights to a certain core services running on your modem. You can allow or deny access from LAN or WAN connection to meet your security requirements. Tick the boxes you wish to enable and click Save for the settings to take effect.

The screenshot shows the Aztech web interface with the 'Application' menu selected. The breadcrumb trail is 'Application -> Access Control Setup [Help]'. The 'ACL' checkbox is checked. Below is a table for configuring access control:

Application	LAN	WAN
Web	LAN <input checked="" type="checkbox"/>	WAN <input checked="" type="checkbox"/>
FTP	LAN <input checked="" type="checkbox"/>	WAN <input checked="" type="checkbox"/>
Telnet	LAN <input checked="" type="checkbox"/>	WAN <input checked="" type="checkbox"/>
SNMP	LAN <input checked="" type="checkbox"/>	WAN <input type="checkbox"/>
Ping	LAN <input checked="" type="checkbox"/>	WAN <input checked="" type="checkbox"/>

'Save' and 'Advanced' buttons are located at the bottom of the page.

Application > Filter

This page allows you to set the IP, MAC, URL and Application filtering on the device. Select Filter type from the drop down box and input the information on the required field click Set for the settings to take effect.

Filter Type
 Filter Type Selection : IP / MAC Filter

Rule Type
 Rule Type Selection : Black List

IP / MAC Filter Rule

IP / MAC Filter Rule Index : 1

Active : Yes No

Interface : PVC0

Direction : Both

Rule Type : IP

Source IP Address : 0.0.0.0 (0.0.0.0 means Don't care)

Subnet Mask : 0.0.0.0

Port Number : 0 (0 means Don't care)

Destination IP Address : 0.0.0.0 (0.0.0.0 means Don't care)

Subnet Mask : 0.0.0.0

Port Number : 0 (0 means Don't care)

DSCP : 0 (Value Range:0~64, 64 means Don't care)

Protocol : TCP

IP / MAC Filter Listing

#	Active	Interface	Direction	Src Address/Mask	Dest Address/Mask	MAC Address	Src Port	Dest Port	DSCP	Protocol
---	--------	-----------	-----------	------------------	-------------------	-------------	----------	-----------	------	----------

SET DELETE CANCEL

Application > Routing

This page will list the routing table information. This allows you to Add/Edit/Drop the static route. Click Add Route and input the information on the required field then click Apply for the settings to take effect.

The screenshot shows the Aztech web interface with the 'Application' menu selected. The breadcrumb trail is 'Application -> Routing Table List [Help]'. Below the navigation bar is a table listing the routing table entries.

#	Dest IP	Mask	Gateway IP	Metric	Device	Edit	Drop
0	192.168.2.0	255.255.255.0	0.0.0.0	0	br0		
1	192.168.1.0	255.255.255.0	0.0.0.0	0	br0		
2	127.0.0.0	255.255.0.0	0.0.0.0	0	lo		
3	239.0.0.0	255.0.0.0	0.0.0.0	0	br0		

Below the table is an 'ADD ROUTE' button.

The screenshot shows the Aztech web interface with the 'Application' menu selected. The breadcrumb trail is 'Application -> Routing Table List [Help]'. Below the navigation bar is the 'Static Route' configuration form.

Static Route

Destination IP Address :

IP Subnet Mask :

Gateway IP Address : PVC0

Metric :

Buttons:

Application > NAT

Allows user to configure DMZ, Port Forwarding and Port Triggering applications.

DMZ. This feature allows you to set a host between a private local network and the public network. This feature allows outside users from getting direct access to your local network.

Port Forwarding. This feature allows you to set a direct incoming traffic from the Internet to a specific computer in your local network.

Port Triggering. This feature allows local users to temporarily open ports based on trigger ports.



Note: Disable SPI for DMZ, Port Forwarding and Port Triggering to have a WAN access.

Application > QoS

Quality of Service or QoS provides different priority to different applications, users, or data flows, to guarantee a certain level of performance. For example, QoS is important for real-time streaming multimedia applications such as voice over IP, online games and IPTV to provide fixed bit rate and prevent delay.

QoS : Activated Deactivated

Discipline : WRR Strict Priority

WRR weight : Highest: 8 High: 4 Medium: 2 Low: 1 (valid: 1~15)

Rule

Rule Index : 0

Active : Activated Deactivated

Application : [Dropdown]

Physical Ports : eth0 eth1 eth2 eth3 rs0

Destination MAC : [Text Field]

IPv4/IPv6 : [Text Field]

Mask/Prefix : [Text Field]

Port Range : [Text Field] ~ [Text Field]

Source MAC : [Text Field]

IPv4/IPv6 : [Text Field]

Mask/Prefix : [Text Field]

Port Range : [Text Field] ~ [Text Field]

Protocol ID : [Dropdown]

Vlan ID Range : [Text Field] ~ [Text Field]

IPP/DS Field : IPP/TOS DSCP

IP Precedence Range : [Dropdown] ~ [Dropdown]

Type of Service : [Dropdown]

DSCP Range : [Text Field] ~ [Text Field] (Value Range: 0 ~ 63)

802.1p : [Dropdown] ~ [Dropdown]

Active

IPP/DS Field : IPP/TOS DSCP

IP Precedence Remarking : [Dropdown]

Type of Service Remarking : [Dropdown]

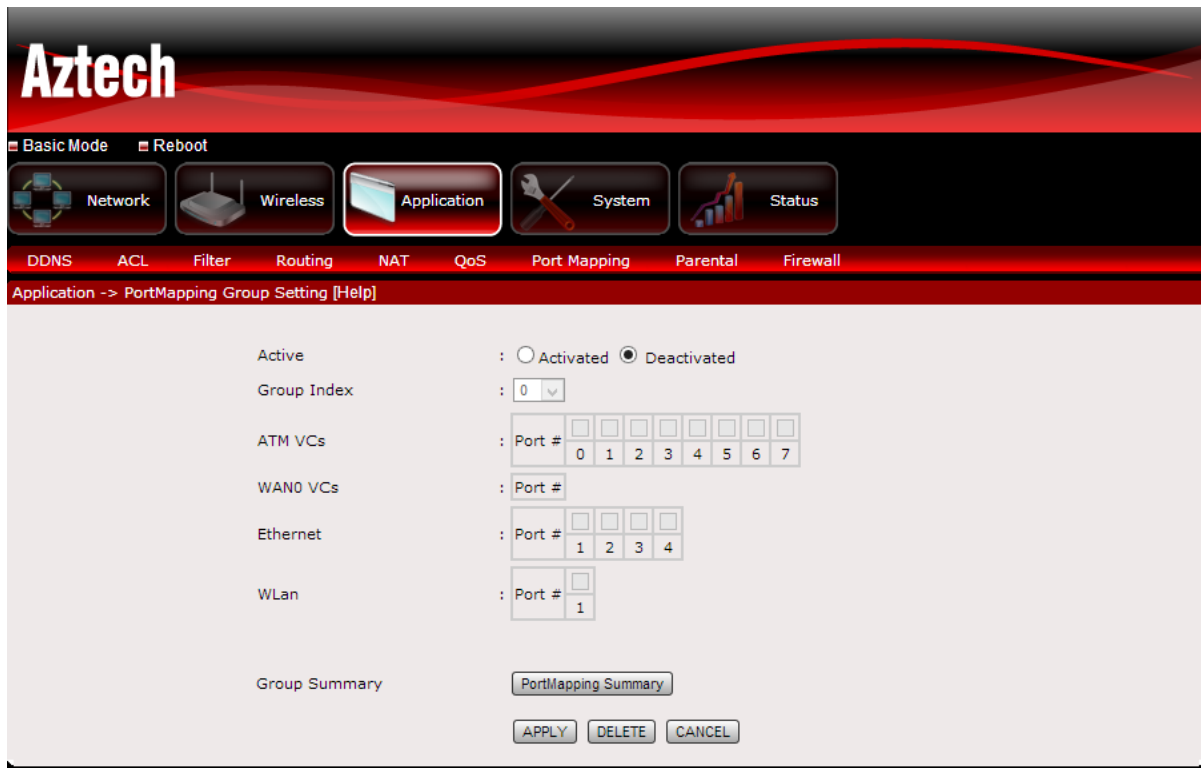
DSCP Remarking : [Text Field] (Value Range: 0 ~ 63)

802.1p Remarking : [Dropdown] ~ [Dropdown]

Queue # : [Dropdown]

Application > Port Mapping

This page feature allows ATM PVCs to be permanently routed to a physical interface on the device.



The screenshot displays the Aztech web management interface. At the top left is the "Aztech" logo. Below it are navigation tabs: "Basic Mode" and "Reboot". A main menu contains icons for "Network", "Wireless", "Application" (selected), "System", and "Status". A secondary menu lists various services: "DDNS", "ACL", "Filter", "Routing", "NAT", "QoS", "Port Mapping" (selected), "Parental", and "Firewall". The breadcrumb path is "Application -> PortMapping Group Setting [Help]".

The configuration area includes the following settings:

- Active: Activated Deactivated
- Group Index:
- ATM VCs: Port #
- WAN0 VCs: Port #
- Ethernet: Port #
- WLan: Port #

At the bottom, there is a "Group Summary" section with a "PortMapping Summary" button, and three action buttons: "APPLY", "DELETE", and "CANCEL".

Application > Parental

This page allows you to block access to specific URL or MAC address on a specific day and time. Select Activated and Blocking Type then input the information on the required field and click Apply for the settings to take effect.

1. Day of Week- tick the days that you want to block the access to a specific URL or MAC Address.
2. Start Blocking Time- Input the start time on the required field.
3. Blocking interval time – Input the blocking interval time on the required field

Example: If you want to start blocking from 9:00am – 9:30am

Start Blocking Time: 9:00am

Blocking Interval time: 00:30

Application -> NAT -> Parental control [Help]

Enable : Activated Deactivated

Blocking Type : MAC URL

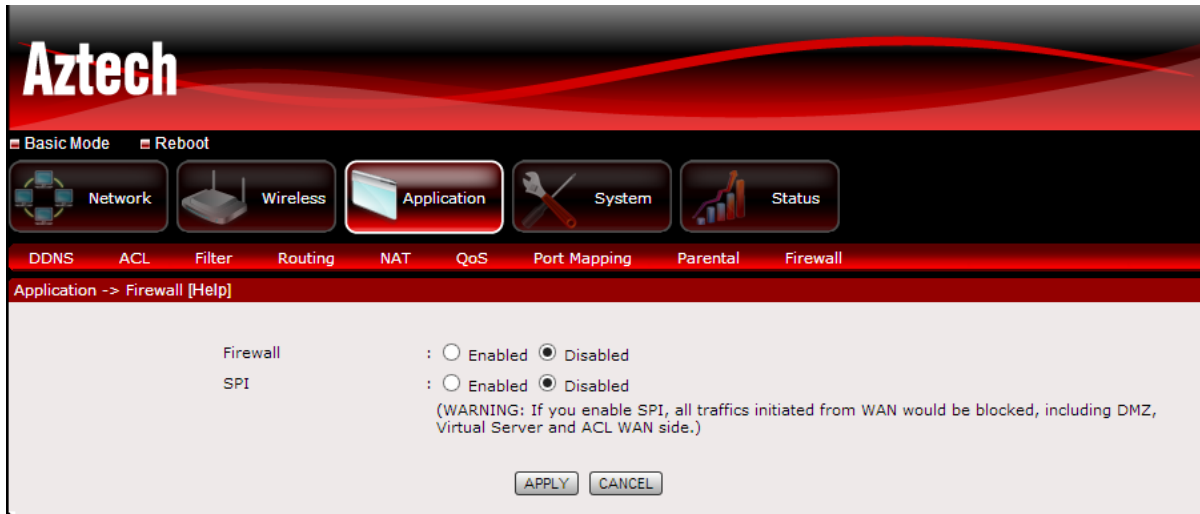
MAC Address : Block Your Self

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Day of Week	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Start Blocking Time	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>
Blocking Interval Time	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>	<input type="text" value="00:00"/>

APPLY

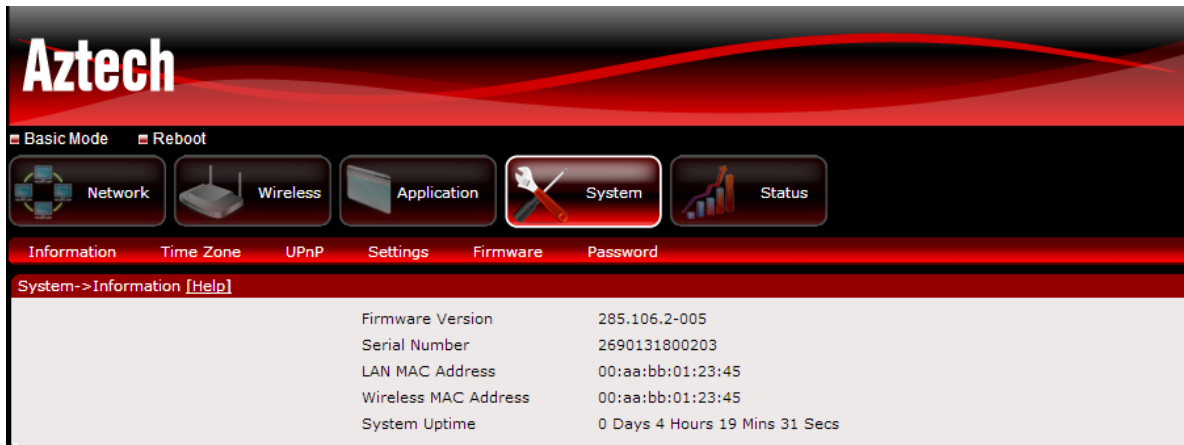
Application > Firewall

This page allows you to enable or disable Firewall and SPI feature set on the modem.



Advanced- System

Allows you to Back-up, Restore settings and do Firmware upgrade on the modem.



System>Information

Displays detailed information of the modem's Firmware version, LAN/WLAN MAC Address and System Uptime.

The screenshot shows the Aztech modem web interface. At the top, there is a navigation bar with the Aztech logo and a menu with 'Basic Mode' and 'Reboot'. Below this is a main menu with icons for 'Network', 'Wireless', 'Application', 'System', and 'Status'. The 'System' menu is selected, and a sub-menu is visible with 'Information', 'Time Zone', 'UPnP', 'Settings', 'Firmware', and 'Password'. The 'Information' sub-menu is selected, displaying the following information:

Firmware Version	285.106.2-005
Serial Number	2690131800203
LAN MAC Address	00:aa:bb:01:23:45
Wireless MAC Address	00:aa:bb:01:23:45
System Uptime	0 Days 4 Hours 19 Mins 31 Secs

System> Time Zone

Allows you to set the time used by the device for scheduling services.

The screenshot shows the Aztech modem web interface with the 'System > Time Zone' page selected. The main menu and sub-menu are the same as in the previous screenshot. The 'Time Zone' sub-menu is selected, displaying the following configuration options:

Current Date/Time :

Synchronize time with : NTP Server automatically
 PC's Clock
 Manually

Time Zone :

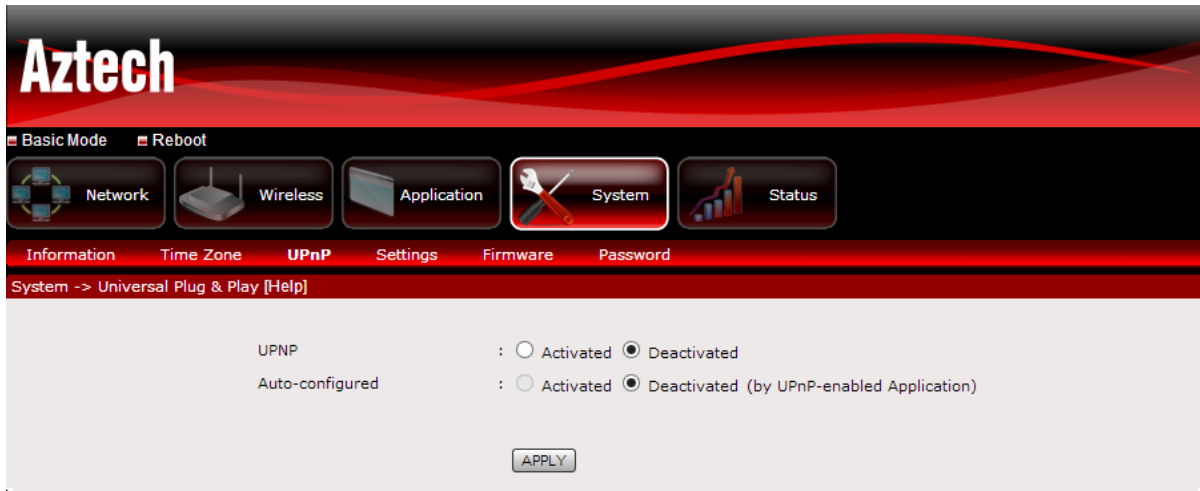
Daylight Saving : Enabled Disabled

NTP Server Address : (0.0.0.0: Default Value)

At the bottom of the page, there are two buttons: 'APPLY' and 'CANCEL'.

System> UPnP

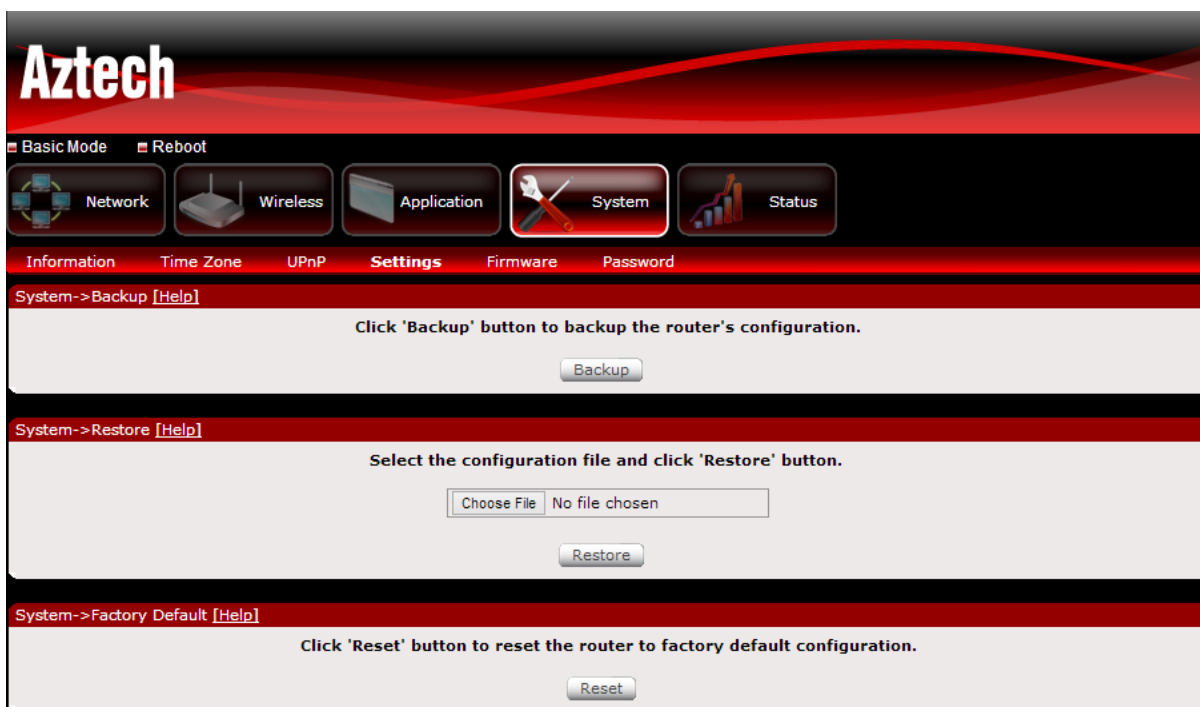
Allows you to enable/disable UPnP application set on the modem.



System> Settings

Allows you to Save and Restore modem's configuration.

1. **Back-up.** Click Backup button to save romfile.cfg on your computer. This will serve as your modem's back-up configuration file.
2. **Restore.** click 'Browse' to select romfile.cfg that was saved on your computer to restore your modem to the last saved configuration then click Restore for the settings to take effect.
3. **Factory Default.** Allows you to Restore the modem's it factory default. Click Reset for the settings to take effect.



System> Firmware

Allows you to change the firmware saved on the modem.



System> Password

This page allows you to change the password set on the modem to access the Web User Interface.



Advanced – Status

Displays the status of the modem.

The screenshot shows the Aztech modem's status page. At the top, there's a navigation bar with 'Basic Mode' and 'Reboot' options. Below that are five main menu items: Network, Wireless, Application, System, and Status (which is highlighted). Underneath are sub-menu items: Statistics, ADSL Status, System Log, Diagnostics, and Network Tools. The main content area is divided into three sections: LAN Statistics, ADSL Statistics, and WLAN Statistics, each with a 'Help' link.

LAN Statistics [Help]

Interface	Packets	Bytes	TX			RX				
			Multicast Frames	Collision	Error Frames	Packets	Bytes	Multicast Frames	CRC Errors	Under-size Frames
LAN	585175	433555285	41385	0	0	553920	407443348	7685	0	0

ADSL Statistics [Help]

Interface	Packets	Bytes	TX			RX			
			Errors	Blocks	Packets	Bytes	Errors	Blocks	
ADSL	381342	59563930	65504	393107	446728	402155989	32613	393107	

WLAN Statistics [Help]

Interface	Packets	TX		Packets	RX	
		Dropped			CRC Errors	Dropped
Wireless	428131	3599		541151	141678	141678

Status> Statistic

Provides statistical information of LAN, ADSL and WLAN interface.

This screenshot is identical to the one above, showing the Aztech modem's status page with the same navigation and statistics tables.

LAN Statistics [Help]

Interface	Packets	Bytes	TX			RX				
			Multicast Frames	Collision	Error Frames	Packets	Bytes	Multicast Frames	CRC Errors	Under-size Frames
LAN	585175	433555285	41385	0	0	553920	407443348	7685	0	0

ADSL Statistics [Help]

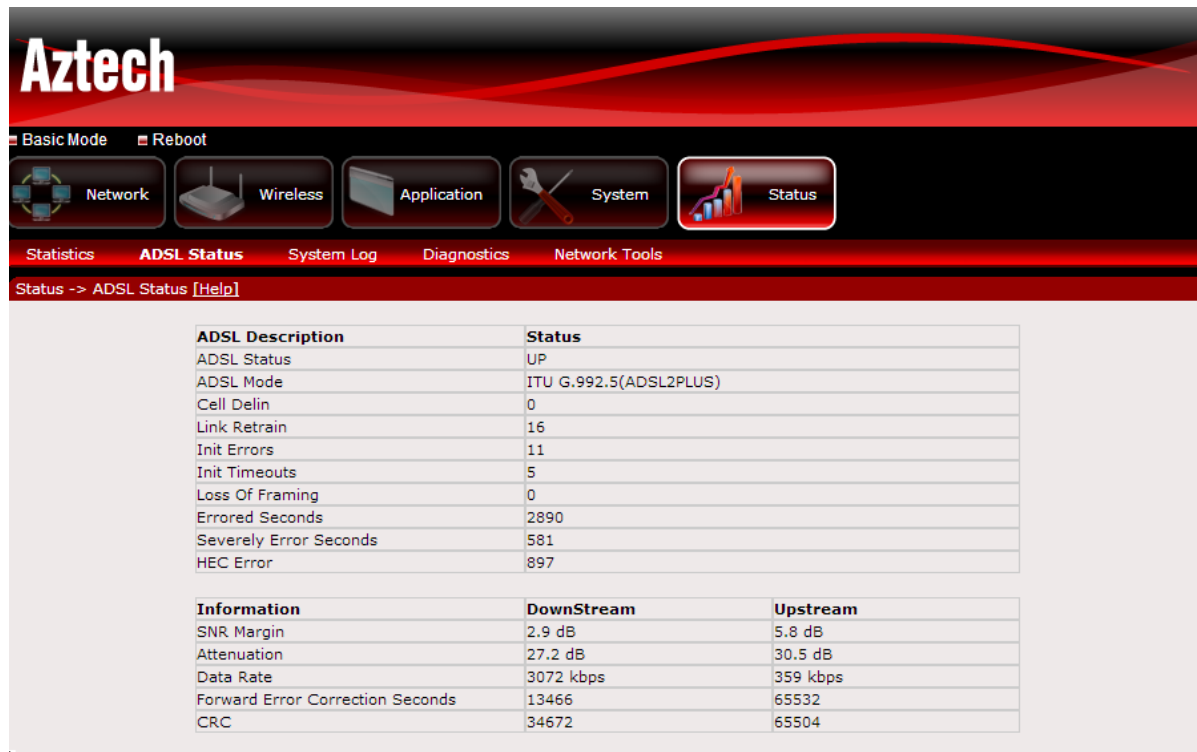
Interface	Packets	Bytes	TX			RX			
			Errors	Blocks	Packets	Bytes	Errors	Blocks	
ADSL	381342	59563930	65504	393107	446728	402155989	32613	393107	

WLAN Statistics [Help]

Interface	Packets	TX		Packets	RX	
		Dropped			CRC Errors	Dropped
Wireless	428131	3599		541151	141678	141678

Status> ADSL Status

Displays detailed information of the ADSL quality.



Aztech

Basic Mode Reboot

Network Wireless Application System Status

Statistics **ADSL Status** System Log Diagnostics Network Tools

Status -> ADSL Status [Help]

ADSL Description	Status
ADSL Status	UP
ADSL Mode	ITU G.992.5(ADSL2PLUS)
Cell Delin	0
Link Retrain	16
Init Errors	11
Init Timeouts	5
Loss Of Framing	0
Errored Seconds	2890
Severely Error Seconds	581
HEC Error	897

Information	DownStream	Upstream
SNR Margin	2.9 dB	5.8 dB
Attenuation	27.2 dB	30.5 dB
Data Rate	3072 kbps	359 kbps
Forward Error Correction Seconds	13466	65532
CRC	34672	65504

Status> System Log

Displays the modem's system log.



Aztech

Basic Mode Reboot

Network Wireless Application System Status

Statistics ADSL Status **System Log** Diagnostics Network Tools

Status -> System Log Configuration [Help]

Log : Enable Disable

Log Level : Debug

Display Level : Debug

Remote Log : Enable Disable

Server IP Address : 0.0.0.0

Server UDP Port : 514

APPLY Viewlog

Status> Diagnostics

Displays the test results for the connectivity of the physical layer and protocol for ADSL, ATM, WLAN/LAN port and LAN connection, click Start test to start the test.

Aztech

Basic Mode Reboot

Network Wireless Application System Status

Statistics ADSL Status System Log **Diagnostics** Network Tools

Status -> Diagnostic Tools -> ADSL Status [\[Help\]](#)

Interface	Status
ADSL Synchronization	Up
Ping to DHCP Primary or Secondary DNS	PASS

Status -> Diagnostic Tools -> Local Network Status [\[Help\]](#)

Interface	Status
WIRELESS	Up
LAN Port - 1	Up
LAN Port - 2	Up
LAN Port - 3	Down
LAN Port - 4	Down

Status -> Diagnostic Tools -> ATM Connectivity [\[Help\]](#)

ATM Connectivity	Status
Ping to ATM OAM Segment	Down
Ping to ATM OAM end to end	Down

Status -> Diagnostic Tools -> LAN Connectivity Status [\[Help\]](#)

LAN Connectivity	Status
LAN Connection	Up
Ping to DHCP Primary DNS	Up

Start Test

Status> Network Tools

Allows you to test the modem's Internet connectivity.

Aztech

Basic Mode Reboot

Network Wireless Application System Status

Statistics ADSL Status System Log Diagnostics **Network Tools**

Status -> Network Tools [\[Help\]](#)

Process Selection

Ping Count counts

IP address/URL

Apply

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 let the modem get wet, when water gets in contact with the modem, the internal components can corrode which breaks down the 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 where it lands, the modem can get cracked casing or internal components may get 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.