

User Manual

DSL1000EW(L)

4-Port ADSL2+ Wireless-G

Modem Router

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About the Router

Your router offers an easy way of integrating your computer and other network devices into a single network. Here are some of the benefits you can obtain from using the router in your home or office:

Integrated Modem Feature Your router is an ideal solution for high speed Internet connectivity. It is capable of handling the fastest data transfer speed from your Internet provider and sharing this within your local network devices.

Top Notch Security Your router utilizes built-in firewall security to block service attacks. For added flexibility, it can be modified to allow specific applications to pass through while blocking intrusive threats at the same time.

Intuitive User Interface Applying changes on the router settings can be done easily using a Web browser. The router uses a simplified user interface that allows you to apply the configurations you want for the various features of the router.

Your router will serve as the central figure in establishing your local area network (LAN) by using a combination of hardware and software. The hardware includes the cables, wireless access points, and Ethernet ports that create the path to connect your devices. The software part includes the applications that manage the flow of information in these devices.

You can complete the basic installation and Internet connection within 8 minutes. Some more time is needed if you intend to utilize more advanced functions but it can be worth it. Advanced features like port forwarding will help you create your own web server to store your Web site, Dynamic DNS allows you to access your network from the Internet, and remote access enables you to configure your router settings from different locations.

Once installation is complete, it will be much more easier for you to enjoy voice communication, high speed Internet, and data/audio/video sharing within your network.

Firmware Features

ADSL Support

- ANSI T1.413 issue 2, ITU-T G.992.1 (G.dmt) and G.992.2 (G.lite) compliant
- G.992.3 (ADSL2), G.992.5 (ADSL2+), RE-ADSL Ready
- ATM Layer with Traffic shaping QoS Support (UBR, CBR, VBR-rt, VBR-nrt)
- AAL ATM Attributes - AAL5
- Multiple PVC up to 8 support
- Spectral compatibility with POTS
- F4 & F5 OAM Loopback/Send and Receive
- Annex A, Annex B, Annex M Support
- TR048 and TR067 compliant
- PVC support

Encapsulation Support

- RFC2684 Bridge and Routed LLC and VC Mux support
- RFC2364 PPPoA Client support
- RFC2516 PPPoE Client support
- RFC2225/RFC1577 Classical IP Support
- Transparent Bridge Support
- PAP/CHAP/MS-CHAP for Password Authentication Support

Network Support

- Static IP, Dynamic RIP v1/v2 routing support
- IP/TCP/UDP/ICMP/ARP Application Support
- Network Address Translation (NAT)
- PVC to VLAN Mapping
- Port Forwarding/Triggering
- Easy setup of Port Forwarding rules for popular Games/Application
- NAT Application Level Gateway for popular applications
- DHCP Server/client
- DNS Relay Agent
- DMZ support

- SIP ALG (Application Layer Gateway) support
- Multiple Sessions IP Sec and PPTP/L2TP VPN pass through support
- PPP Always on
- PPP Dial on Demand with configurable timeout
- Universal Plug and Play Support
- DDNS (Dynamic DNS) Support
- IGMP Proxy Support (IGMP v1 and v2)
- SNMP Support
- QoS Support (DSCP, TOS), including Diffserv, IEEE802.1p - Priority bit, IEEE802.1q - VLAN triggering

WLAN Support

- Wireless on Motherboard (WOMBO)
- IEEE 802.11, 802.11b and 802.11g compliant
- Supports 802.11b, 802.11g simultaneously
- Transmit output power up to 20dBm (standard)
- Conforms to Wireless Ethernet Compatibility Alliance (WECA) Wireless Fidelity (Wi-Fi[™]) Standard
- Support seamless WLAN roaming
- Frequency Band:
 - 2412 MHz - 2462 MHz (North America/FCC)
 - 2412 MHz - 2472 MHz (ETSI/Europe)
 - 2412 MHz - 2484 MHz (Japan)
 - 2457 MHz - 2472 MHz (France)
 - 2457 MHz - 2462 MHz (Spain)
- Support Direct Sequence Spread Spectrum (DSSS) technology
- Modulation: OFDM with BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK
- Wireless Media Access Protocol- CSMA/CA with ACK
- 64/128 WEP Encryption
- WPA/WPA2 Support
- MAC filtering Support
- Dynamic Rate Scaling from 54, 48, 36, 24, 12, 11, 9, 6, 5.5, 2, 1 Mb/s
- Operating Range of up to 300 feet (Open Air)

Management Support

- Web Based HTTP management GUI
- Web Based Firmware Upgrade (Local)
- Soft Factory Reset Button via Web GUI
- Diagnostic Test (DSL, OAM (ADSL), Network (ADSL), Ping Test)
- TR068 - WAN Access
- Telnet with CLI (Read and Write) configuration
- Syslog Support
- Firmware upgradeable for future feature enhancement
- Quick firmware upgrade button (depopulation option)
- TR-069 Compliant (optional)
- SNMP v1 and v2 (optional)
- SSH Support (optional)

Security Support

- NAT for basic Firewall support
- Packet Filtering Firewall Support
- Stateful Packet Inspection Support
- Protection against Denial of Service attacks
- Password Authentication to Modem
- Parental Control
- Real-Time Attack and Alert Logs (optional)

Requirements

Your computer must meet the following minimum requirements.

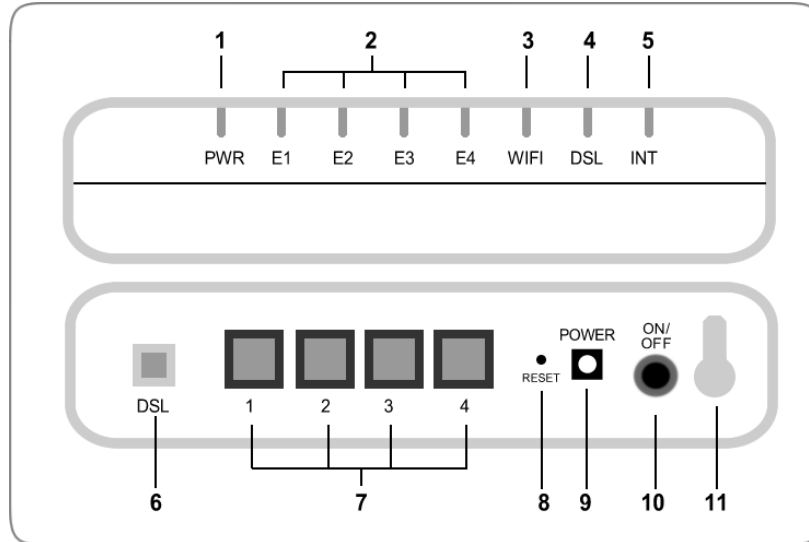
- Any operating system can be used
- Web Browser
- CDROM drive
- 233MHz processor
- Ethernet network adapter
- An active DSL Internet account

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 (optional)
- 12V 1.0A DC Power Adapter
- Easy Start Guide
- Resource CD

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

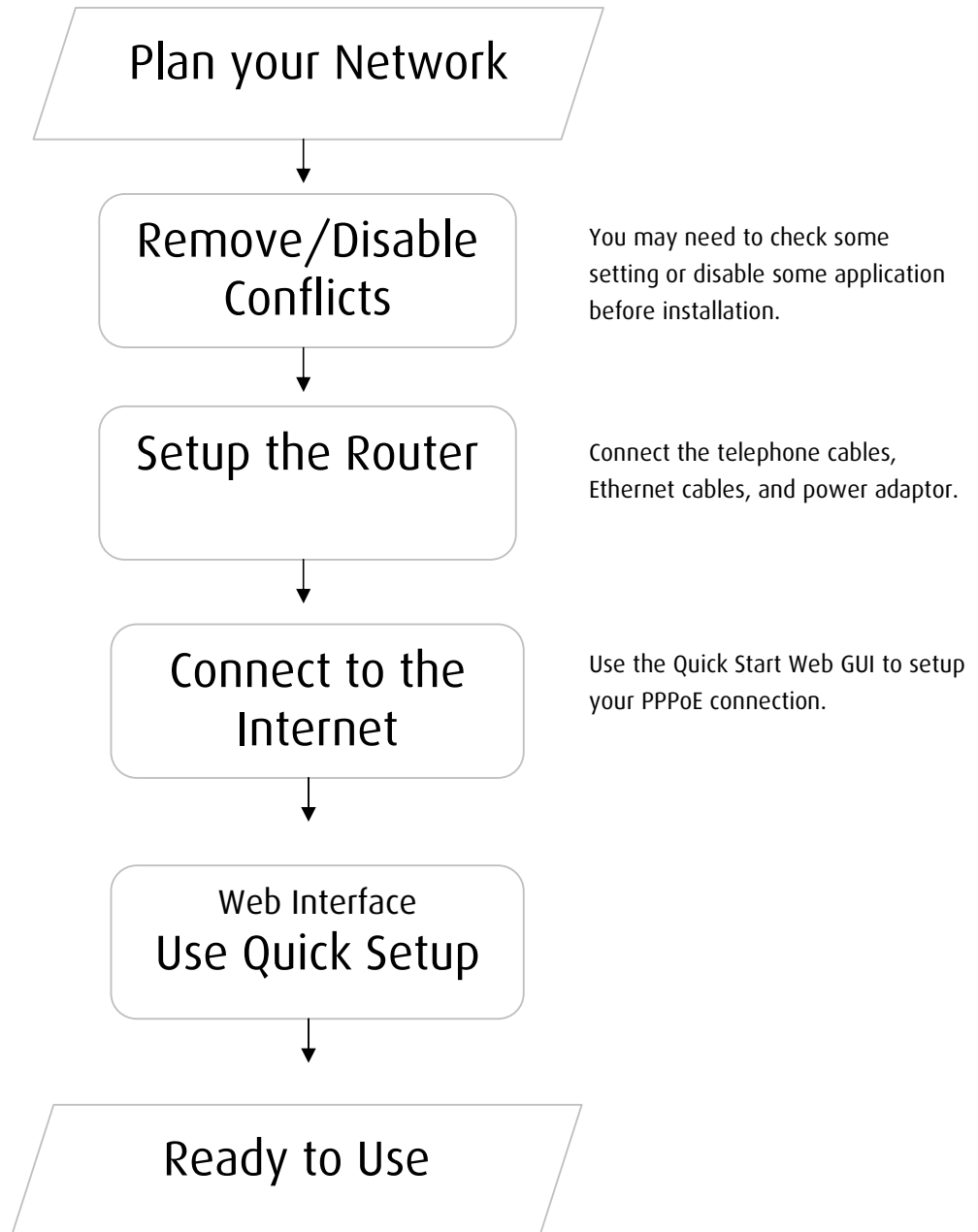
	Label	Description
6	BROADBAND	Connecting the modem to an ADSL line
7	ETHERNET 1-4	Connecting computers and other Ethernet devices
8	RESET	To reset the modem to the factory default configuration
9	DC In	12V 1.0A DC Input port
10	POWER	Power ON/OFF button
11	Antenna	Sending/receiving wireless signals

Power Supply

MANUFACTURER : Aztech
MODEL : SWM11-12120-EU/UK
INPUT : 100-240V~0.4A 50-60Hz
OUTPUT : 12.0V === 1.00A

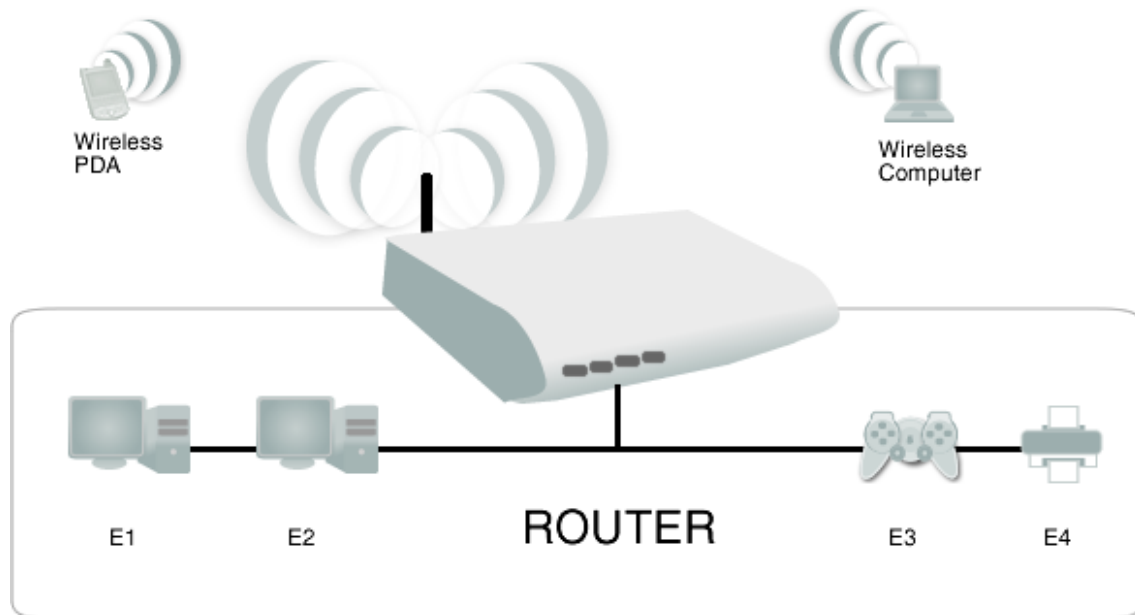
Getting Started

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



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

- Ethernet 1 – Dad’s computer
- Ethernet 2 – Mom’s computer
- Ethernet 3 – Game Console
- Ethernet 4 – Network Printer

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 make sure the router installation moves on smoothly, you need to remove or disable conflicts that may interfere 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 start 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. 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

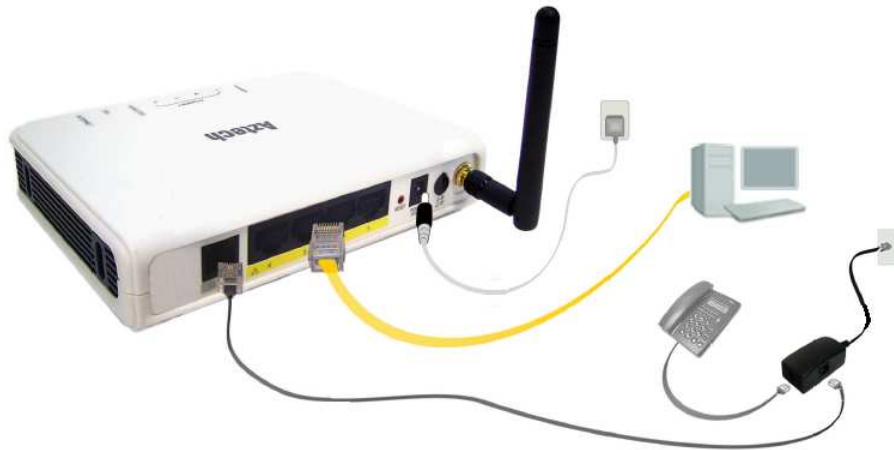
Temporary Internet files are files from Web sites that are stored in your computer. Delete these files to clean the cache and remove footprints left by the Web pages you visited.

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 in 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.
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

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:

- 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 electrical outlet.
5. Press ON.

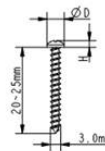
Wall Mount Feature

The Aztech DSL1000EW(L) provides a wall-mount feature to affix the router to a wall.

To setup the router to a wall-mount:

1. Identify the wall where you would like to mount the router. Ensure that it is sturdy and within reach of a power outlet and your telephone line socket for the DSL connection.
2. Make a mark for 2 holes 127mm apart on the wall and drill the screws leaving 5mm of the head exposed.
3. Once the screws are in place, you may latch the wall mount sockets on the bottom of your router until it is firmly attached.

NOTE: Adjust the screws if you are unable to latch the router.



Wall Mount Screw (Qty: 2)
D: 5 ~ 6.3mm
H: 1.7 ~ 2.2mm

Conical Anchor
(Optional) Qty: 2

No.	Size	Screw diameter	Drill hole diameter
E5	5X19 mm	M2.5 - 3 (#4 - #5)	5 mm

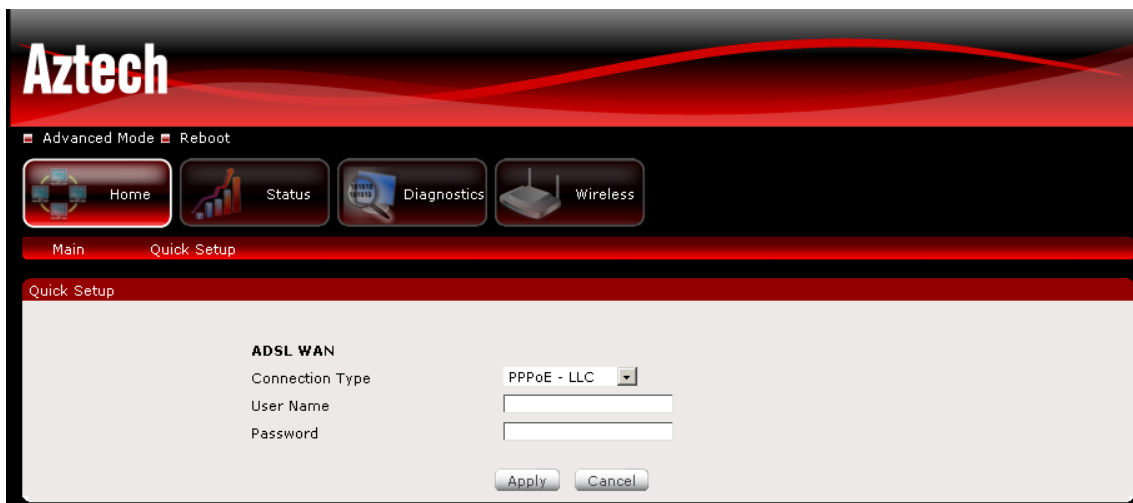
Connecting to the Internet

You can use the Web Interface to setup your Internet connection.

Connecting Via Quick Setup

To connect to the Internet via the User mode GUI:

1. Launch the web browser and input 192.168.1.1 on the address bar.
2. Input admin for username and input admin for password. Click the Login button.
3. Click Quick Setup.



4. Enter the ADSL WAN connection settings.
 - a. Select a Connection Type
 - b. Enter the PPP Username and Password
5. Click the Apply button to commit the settings.

Basic Mode

Basic Mode provides configuration options for wireless router functions, Status, and Diagnostic features.

Accessing the Basic Mode Web Interface

To access the Basic Mode Web Interface:

1. Launch your web browser.
2. Input 192.168.1.1 on the address bar and press Enter.
3. There will be an authentication request where you need to key in a username and password. Default Username: admin | Password: admin
4. Click Login
5. Select the menu icon from the top panel

The screenshot displays the Aztech Basic Mode Web Interface. At the top, the Aztech logo is visible. Below the logo, there are navigation buttons for Home, Status, Diagnostics, and Wireless. The interface is divided into several sections:

- Main** and **Quick Setup** tabs are visible at the top.
- Internet Connection** section shows: DSL Status (Up), DSL Uptime (0 Hours 3 Mins 18 Secs), Downstream Rate (26213), Upstream Rate (1304), Connection Status (Connected), Connection Type (Bridge), and WAN MAC Address (00:26:75:1c:c5:f1).
- System Information** section shows: Model Number (DSL1000EW(L)), Firmware Version (231.150.1-001), Software Version (231.150.1-001), System Uptime (0 Hours 4 Mins 22 Secs), LAN MAC Address (00:26:75:1C:C5:EF), LAN IP Address (192.168.1.1), and LAN Net Mask (255.255.255.0).
- Wireless Connection** section shows: WLAN MAC Address (00:26:75:1C:C5:F0), SSID (Aztech), WPA Enabled (Yes), Passphrase (aabbccdde), and Broadcast SSID (Yes).
- Local Network** section shows: No Local Client connected.

Menus

The Basic Mode Web User Interface includes the following menus:

- Home
- Status
- Diagnostics
- Wireless

Home

Main

Displays the summary and provides an overview of the operating parameters used in your device.

The screenshot displays the Aztech web user interface. At the top, the 'Aztech' logo is visible. Below the logo, there are navigation buttons for 'Home', 'Status', 'Diagnostics', and 'Wireless'. The 'Main' menu is selected, showing a 'Quick Setup' button. The interface is divided into several sections:

- Internet Connection:**

DSL Status	Up
DSL Uptime	0 Hours 3 Mins 18 Secs
Downstream Rate	26213
Upstream Rate	1304
Connection Status	Connected
Connection Type	Bridge
WAN MAC Address	00:26:75:1c:c5:f1
- System Information:**

Model Number	DSL1000EW(L)
Firmware Version	231.150.1-001
Software Version	231.150.1-001
System Uptime	0 Hours 4 Mins 22 Secs
LAN MAC Address	00:26:75:1C:C5:EF
LAN IP Address	192.168.1.1
LAN Net Mask	255.255.255.0
- Wireless Connection:**

WLAN MAC Address	00:26:75:1C:C5:F0
SSID	Aztech
WPA Enabled	Yes
Passphrase	aabbccdde
Broadcast SSID	Yes
- Local Network:**

No Local Client connected.

Quick Setup

You can use Quick Setup to configure your Internet connection.



- PPPoE/PPPoA - Select PPPoE or PPPoA to enter the username and the password provided by you ISP.
- DHCP - Select DHCP for the modem router to automatically acquire IP information from the server.
- Static IP - Select Static IP to manually set the IP address, subnet mask, gateway and so on.
- Bridge - Select Bridge if you have another device behind the modem router to establish the Internet connection such as another router or a PPP dialer on your PC.

Status

Device Info

Device info menu displays different information about the device and current ADSL connection status such as total System Uptime and DSL Uptime.

Aztech

Advanced Mode Reboot

Home Status Diagnostics Wireless

Device Info LAN Wireless ADSL Statistics

Status->Device Info->System

Model Number	DSL1000EW(L)
System Uptime	2 Hours 44 Mins 43 Secs
Firmware Version	231.150.1-001
Software Version	231.150.1-001

Status->Device Info->ADSL

Operational Status	Up
DSL Uptime	2 Hours 43 Mins 38 Secs
Downstream Rate	26202
Upstream Rate	1315

LAN

LAN menu displays the device IP address, DHCP server parameters and a list of DHCP clients connected to the modem router.

Aztech

Advanced Mode Reboot

Home Status Diagnostics Wireless

Device Info LAN Wireless ADSL Statistics

Status->LAN->Configuration

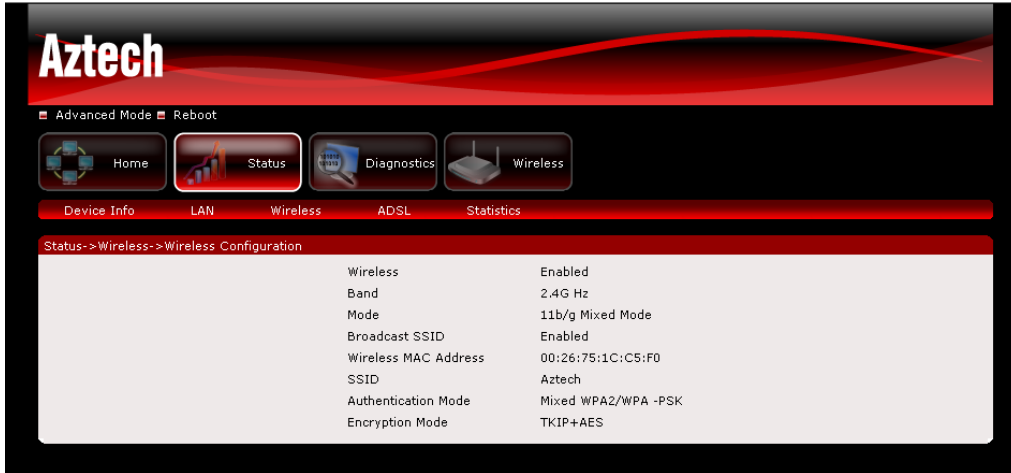
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
MAC Address	00:16:75:1C:C5:EF
DHCP Server	Enabled
DHCP Address Range	192.168.1.2 - 192.168.1.254

Status->LAN->DHCP Client Table

Name	IP Address	MAC Address	Lease Time Expiry
Aztech	192.168.1.2	00:16:76:79:e9:10	85687 secs

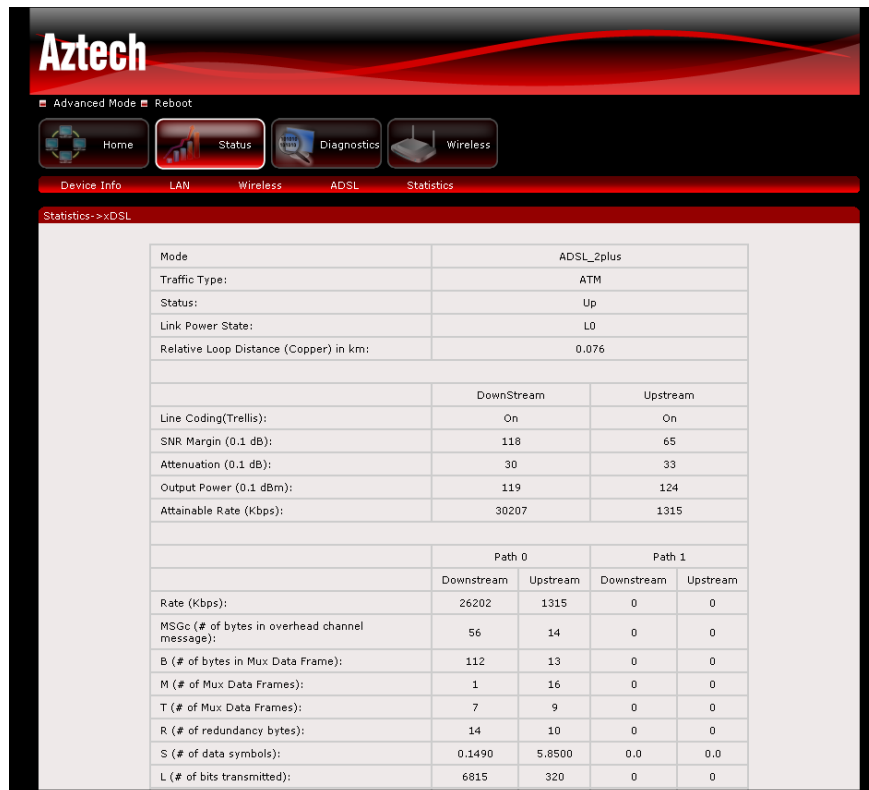
Wireless

Wireless menu displays the current wireless operating parameters of the modem router.



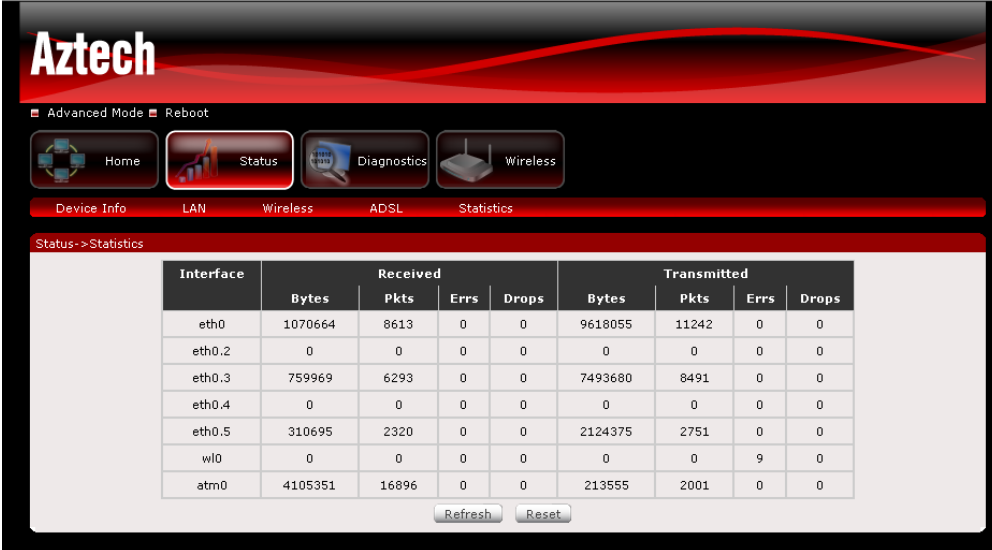
ADSL

ADSL menu displays the complete ADSL connection status of the modem router.



Statistics

Statistics menu displays the complete connection statistic information for each interface of the modem router.



The screenshot shows the Aztech web interface with the 'Statistics' menu selected. The interface includes a navigation bar with 'Home', 'Status', 'Diagnostics', and 'Wireless' buttons. Below the navigation bar, there are tabs for 'Device Info', 'LAN', 'Wireless', 'ADSL', and 'Statistics'. The 'Statistics' tab is selected, displaying a table of interface statistics.

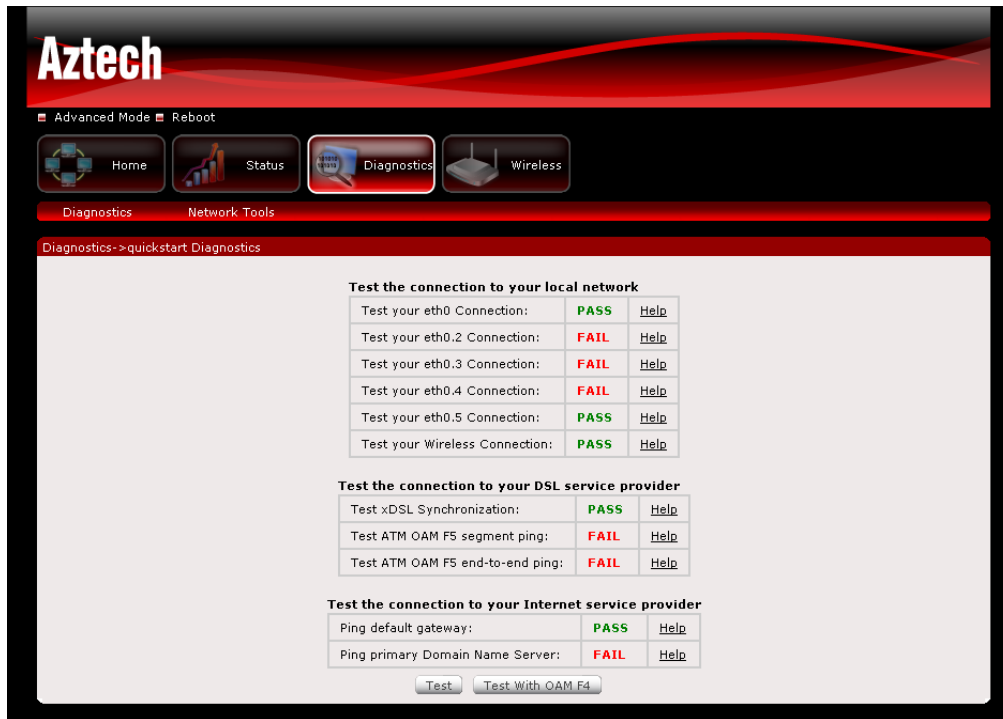
Interface	Received				Transmitted			
	Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
eth0	1070664	8613	0	0	9618055	11242	0	0
eth0.2	0	0	0	0	0	0	0	0
eth0.3	759969	6293	0	0	7493680	8491	0	0
eth0.4	0	0	0	0	0	0	0	0
eth0.5	310695	2320	0	0	2124375	2751	0	0
wl0	0	0	0	0	0	0	9	0
atm0	4105351	16896	0	0	213555	2001	0	0

Refresh Reset

Diagnostics

Diagnostics

Diagnostic menu tests all the interfaces of the modem router including the DSL and Internet connection.



Network Tools

Network tools allow the user to test the Internet connection by using a ping command to an IP address or web URL.



Wireless

Settings

This page allows you to configure basic features of the wireless LAN interface. You can enable or disable the wireless LAN interface, hide the network from active scans, set the wireless network name (also known as SSID), restrict the channel set based on country requirements, and all other configurations relating to the wireless LAN interface.

Click Apply to commit the wireless settings.



Security

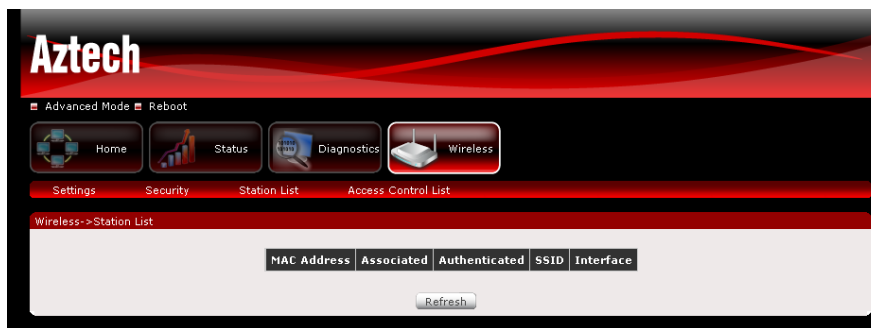
This page allows you to set the network authentication method, selecting data encryption, specify whether a network key is required to authenticate to this wireless network and specify the encryption strength.

Click "Apply" to commit wireless security settings.



Station List

This page displays the wireless clients connected to the modem router.



Access Control List

This page allows you to set a filter to Allow or Deny specific wireless clients by entering the MAC address and selecting the Access Control List mode.



Advanced Mode

Advanced Mode provides configuration options for other router functions.

Accessing the Advanced Web Interface

To access the Advanced Web Interface:

1. Launch your web browser.
2. Input 192.168.1.1 on the address bar and press Enter.
3. There will be an authentication request where you need to key in a username and password. Default Username: admin | Password: admin
4. Click Login
5. Click Advanced Mode

The screenshot displays the Aztech router's Advanced Web Interface. The top navigation bar includes 'Basic Mode' and 'Reboot' options, along with icons for 'WAN', 'LAN', 'Applications', 'Security', and 'Admin'. Below this, there are tabs for 'ATM/ETH Settings', 'Internet', 'ADSL Settings', and 'UPnP'. The main content area is titled 'WAN->ATM/ETH Settings->ATM PVC Settings' and contains the following configuration fields:

- VPI: 0
- VCI: 35
- DSL Link Type: EoA
- Connection Mode: Default Mode - Single service per connection
- Encapsulation Mode: LLC/SNAP-BRIDGING
- Service Category: UBR Without PCR
- Enable IP QoS:

An 'Add' button is located below these fields. Below the configuration fields is a table with the following data:

Interface	Vpi	Vci	Category	Link Type	Connection Mode	IP QoS	Remove
atm0	0	35	UBR	EoA	DefaultMode	Disabled	Remove

A note below the table states: 'Note: Maximum of 8 entries'. Below the table is an 'Apply' button.

The bottom section of the interface is titled 'WAN->ATM/ETH Settings->ETH Settings' and contains the following configuration fields:

- Ethernet Interfaces: eth0/eth0
- Connection Mode: Default Mode - Single service per connection

An 'Apply' button is located below these fields.

Menus

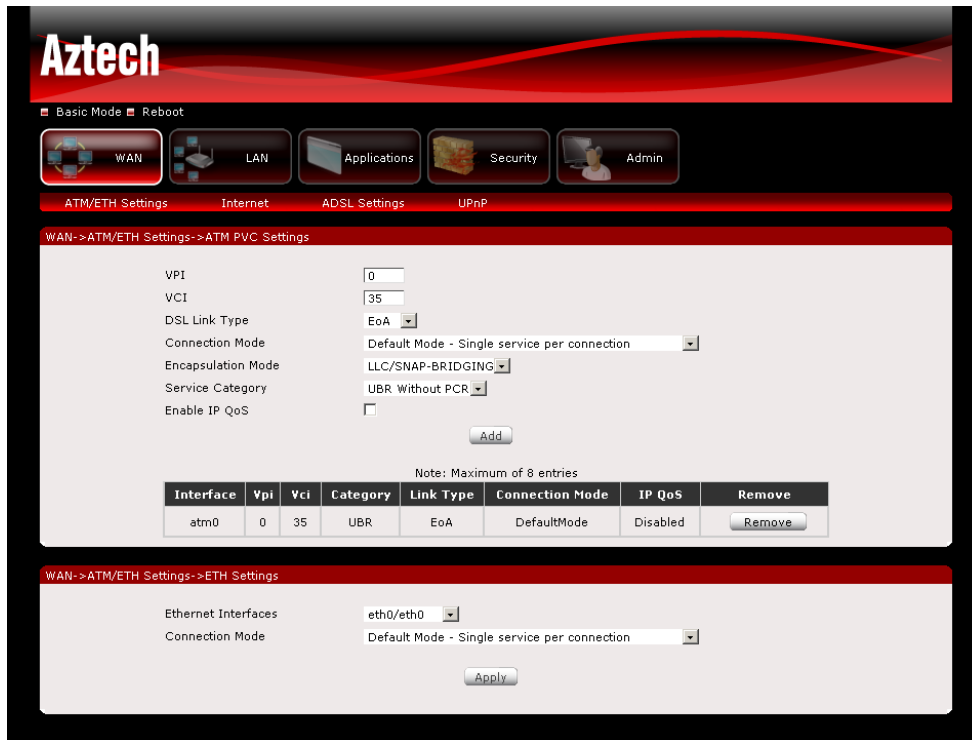
The Web User Interface includes the following menus:

- WAN
- LAN
- Applications
- Security
- Admin

WAN

ATM/ETH Settings

Configure the ATM/ETH parameters from this page.



Internet

The initial page will show all the settings of your existing WAN connection configured on your router. You have an option to Add and Edit WAN interface configurations.



To add a WAN interface:

1. Select the WAN Connection Type from the Quick Setup page
2. Enter the information for each specific field to configure the Internet connection
3. Click the Add button to commit the settings

To edit an existing WAN interface:

1. Select the WAN interface you wish to edit and click the Edit button
2. Make the necessary amendments
3. Click the Add button to commit the settings

To delete an existing WAN interface:

1. Select the WAN interface you wish to delete
2. Click the Remove button

ADSL Settings

The DSL page allows you to select the modulation, the phone line pair and the capability.



UPnP

This page allows you to enable/disable UPnP feature on the modem-router.



LAN

Local

Configure the DSL Router IP Address and Subnet Mask for LAN interface. You may also configure the DHCP server settings of your router.

The screenshot shows the Aztech router web interface. The top navigation bar includes 'Basic Mode' and 'Reboot'. Below it are tabs for 'WAN', 'LAN', 'Applications', 'Security', and 'Admin'. The 'LAN' tab is selected, and the sub-tab 'LAN->DHCP' is active. The configuration fields are as follows:

LAN Group Name	Default
Router IP Address	192.168.1.1
Router Subnet Mask	255.255.255.0
LAN Side Firewall	<input type="checkbox"/>
DHCP Server	Disable <input type="radio"/> Enable <input checked="" type="radio"/>
Start IP Address	192.168.1.2
End IP Address	192.168.1.254
Leased Time (hour)	24
Second Configuration	<input type="checkbox"/>

An 'Apply' button is located at the bottom of the configuration area.

MAC-IP Reservation

The initial page allows you to assign a specific IP address to a specific device by entering its MAC address.

The screenshot shows the Aztech router web interface. The top navigation bar includes 'Basic Mode' and 'Reboot'. Below it are tabs for 'WAN', 'LAN', 'Applications', 'Security', and 'Admin'. The 'LAN' tab is selected, and the sub-tab 'LAN->MAC/IP Address Reservation' is active. The configuration fields are as follows:

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

An 'Add' button is located below the input fields.

Below the configuration area is a table titled 'LAN->MAC/IP Address Reservation Table':

Index	MAC Address	IP Address	Remove
1	00:26:75:11:05:20	192.168.1.100	<input type="checkbox"/>

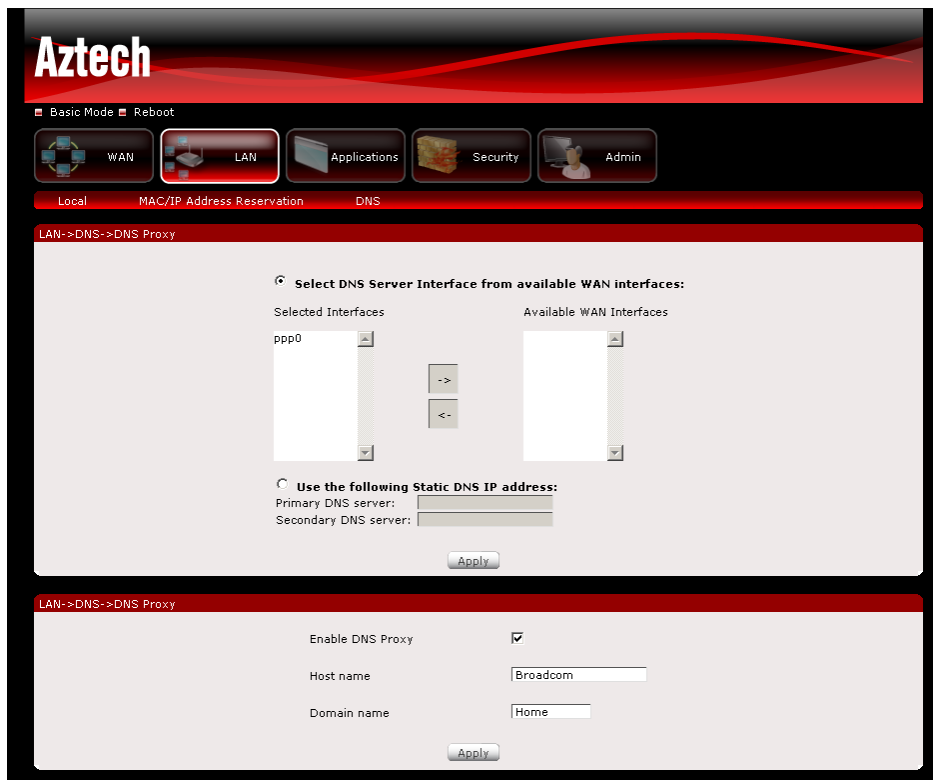
A 'Remove' button is located below the table.

To manually reserve a LAN IP address:

1. Key in the PC's MAC address
2. Key in the LAN IP Address you want to assign
3. Click the Add button

DNS

DNS (Domain Name System) is an Internet service that translates domain names into IP addresses. Because domain names are alphabetic, they are easier to remember. However, the Internet is based on IP addresses. Therefore, each time you type a domain name, a DNS service must translate the name into the corresponding IP address. For example, the domain name `www.example.com` might translate to `198.105.232.4`. The DNS system consists of a network of DNS servers. If one DNS server does not know how to translate a particular domain name, it asks another one and so on until the correct IP address is returned.



If you select DNS server from available WAN interfaces checkbox, the router will receive and use the DNS Server assigned by your ISP.

To use your preferred DNS servers, select Use the following static DNS IP address checkbox and key in the IP address of your Primary DNS server. Adding a Secondary DNS server is optional.

The DNS Proxy Configuration page allows you to enable and specify a DNS proxy name.

Applications

Port Forwarding

Port Forwarding allows you to direct incoming traffic from the Internet to a specific computer in your local network. A maximum 12 entries can be configured.

Aztech
Basic Mode Reboot

WAN LAN Applications Security Admin

Port Forwarding Port Triggering Dynamic DNS Route RIP IP QoS Port Mapping

Applications->Port Forwarding

Use Interface: quickstart/ppp0

Service Name: Select a service: FTP Server Custom Service

Server IP Address: 192.168.1.

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		

Apply

Remaining number of entries that can be configured:31

Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	Remove
FTP Server	21	21	TCP	21	21	192.168.1.2	<input type="checkbox"/>

Remove

Applications->Port Forwarding->DMZ

DMZ Host IP Address:

Apply

As an example, to setup an ftp server on a computer using 192.168.1.2 as its IP Address, select FTP as Service and enter 192.168.1.2 as the Server IP Address. Otherwise if the service you want to setup is not available from the Select a Service drop-down list, you can define your own Port Forwarding rule.

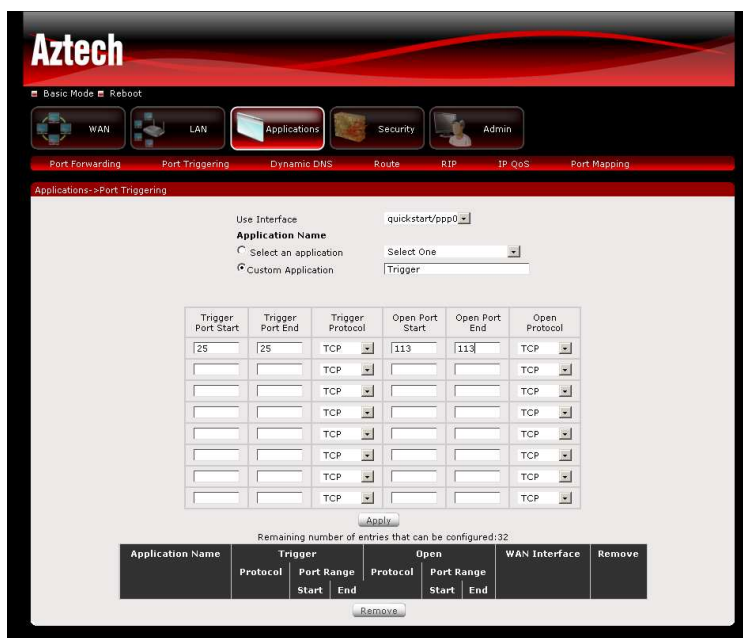
DMZ Host

If a computer is assigned as a DMZ Host, it will receive all the data from the Internet that do not belong to the list of applications configured in Port Forwarding. Enter the LAN IP address of the PC you wish to set as DMZ Host in the provided box. If you need to disable the DMZ Host, just click the remove button.

Note: DMZ exposes your computer to the Internet and will be vulnerable to malicious attacks.

Port Triggering

Some applications require that the specific ports in the router's firewall be opened for access by the remote parties. A maximum of 8 entries can be configured.



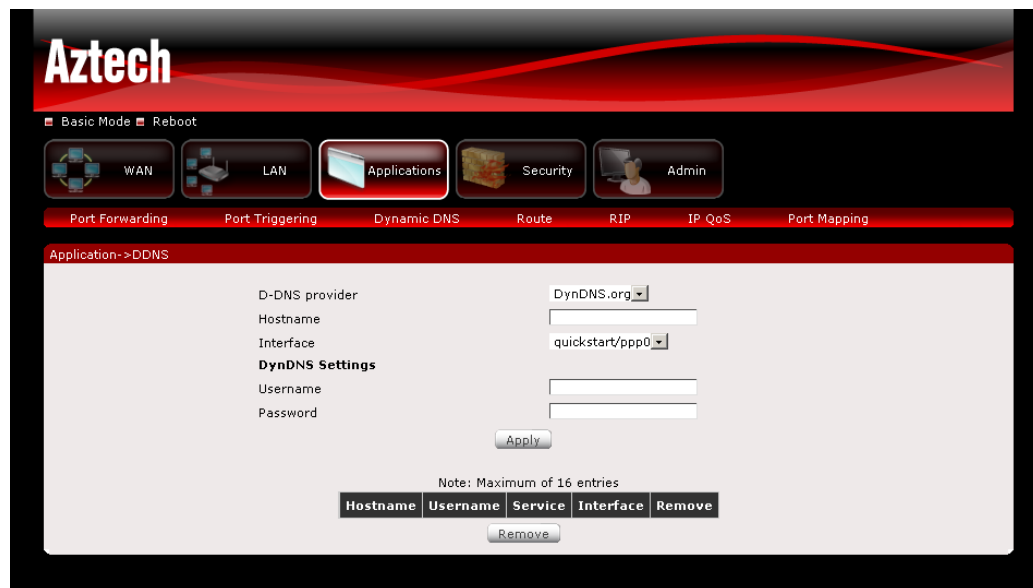
To setup Port Triggering:

For instance, an application uses port 25 for requests and port 113 for replies. If a computer on the LAN connects to port 25 on a remote server hosting this application, using Port Triggering on the router, incoming connections to port 113 (from the remote server) could be redirected to the PC which initiated the request.

DDNS

The router offers a Dynamic Domain Name System (DDNS) feature. DDNS lets you assign a fixed host and domain name to a dynamic Internet IP Address. It is useful when you are hosting your own website, FTP server, or other server behind the router.

Before using this feature, you need to sign up for DDNS service providers.



Using DynDNS.org

Key in the following parameters:

Service provider Select www.DynDNS.org.

My Hostname Enter the hostname.

DynDNS Settings Enter your dyndns.org Username and password.

Route

If your LAN consists of multiple subnets and you want to manually define the data transmitting paths, Static Route is to be used.



The key settings for adding a new Static Route are explained:

Destination Network Address Enter the network address to which the data packets are to be sent.

Subnet Mask Enter the subnet mask for this destination.

Use Gateway IP Address If you wish to use a specific gateway to reach the destination network, select this checkbox and then enter the IP address of the gateway.

Use Interface If you wish to use a particular WAN interface, select the checkbox and select the interface.

Click Save/Apply to take effect the settings.

To delete the entry from the routing table list, click its corresponding Delete button.

RIP

NOTE: RIP CANNOT BE CONFIGURED on the WAN interface that has NAT enabled (such as PPPoE).

To activate RIP for the WAN Interface, select the desired RIP version and operation and place a check in the 'Enabled' checkbox. To stop RIP on the WAN Interface, uncheck the 'Enabled' checkbox. Click the 'Apply/Save' button to star/stop RIP and save the configuration.

Quality of Service

QoS gives you the capability to specify the level of quality to be provided for specific applications. By default, QoS is not enabled.

The screenshot displays the Aztech web interface for configuring Quality of Service (QoS). The interface is organized into several sections:

- Header:** Features the Aztech logo and navigation tabs for Basic Mode, Reboot, WAN, LAN, Applications, Security, and Admin.
- Sub-headers:** Includes Port Forwarding, Port Triggering, Dynamic DNS, Route, RIP, IP QoS, and Port Mapping.
- Applications->QoS:** A section with a single checkbox for 'QoS' and an 'Apply' button.
- Applications->QoS->Queue Setup:** A configuration area with fields for Name, Enable (set to 'Disable'), and Interface. It includes an 'Apply' button and a message: "The QoS function has been disabled. Queues would not take effects." Below this is a table with columns: Name, Key, Interface, Scheduler Alg, Precedence, DSL Latency, Enable, and Remove. At the bottom are 'Enable' and 'Remove' buttons.
- Applications->QoS->Classes:** A section for defining traffic classes with fields for Traffic Class Name, Rule Order (set to 'Last'), Rule Status (set to 'Disable'), Class Interface (set to 'LAN'), Ether Type, Source MAC Address, Source MAC Mask, Destination MAC Address, Destination MAC Mask, Destination IP Address[/Mask], and UDP/TCP Destination Port.

Queue Config

The screen allows you to configure a QoS queue entry and assign it to a specific network interface. Each of the queues can be configured for a specific precedence. The queue entry configured here will be used by the classifier to place ingress packets appropriately.

Note: Lower integer values for precedence imply higher priority for this queue relative to others. Click 'Apply/Save' to save and activate the queue.

Click Add to create a QoS Queue Configuration.

QoS Classification

You can add or remove QoS Classification rules.

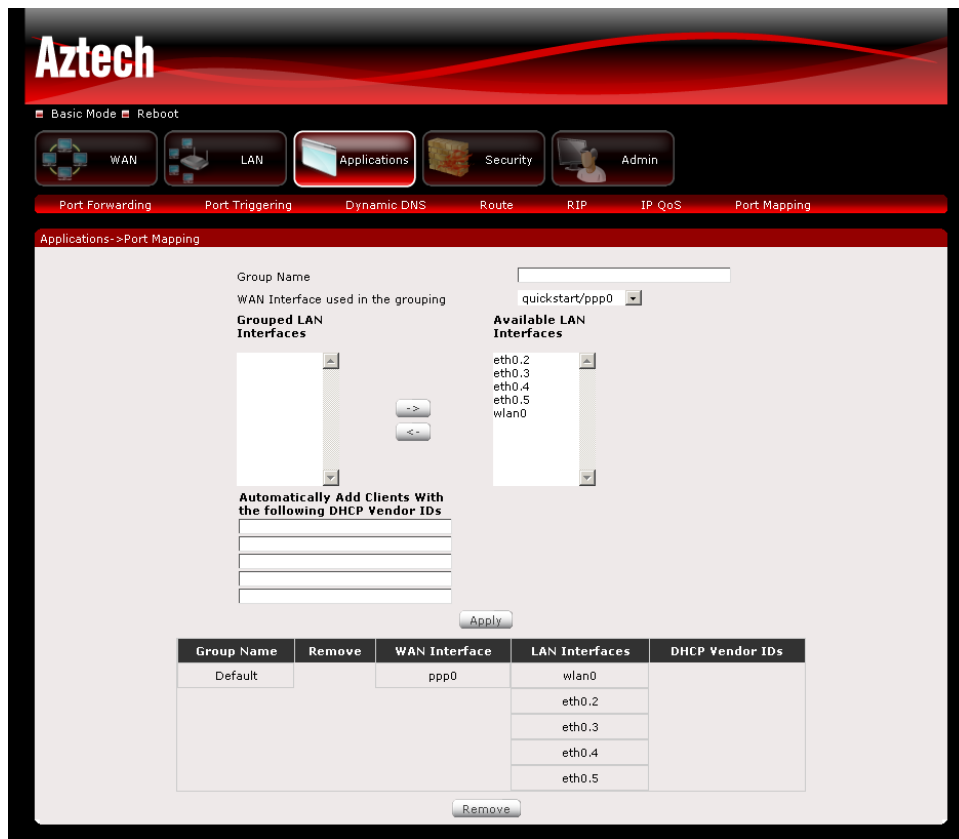
The screen creates a traffic class rule to classify the upstream traffic, assign queue which defines the precedence and the interface and optionally overwrite the IP header DSCP byte. A rule consists of a class name and at least one condition below. All of the specified conditions in this classification rule must be satisfied for the rule to take effect. Click 'Save/Apply' to save and activate the rule.

Click Add to create a Network Traffic Class Rule.

Port Mapping

Port mapping allows you to create groups composed of the various interfaces available in your router.

Port mapping supports multiple ports to PVC and bridging groups. Each group will perform as an independent network. To support this feature, you must create mapping groups with appropriate LAN and WAN interfaces using the Add button. The Remove button will remove the grouping and add the ungrouped interfaces to the Default group. Only the default group has IP interface.



To create a new interface group:

1. Enter the Group name and the group name must be unique and select either 2. (dynamic) or 3. (static) below:
2. If you like to automatically add LAN clients to a WAN Interface in the new group add the DHCP vendor ID string. By configuring a DHCP vendor ID string any DHCP client request with the specified vendor ID (DHCP option 60) will be denied an IP address from the local DHCP server.
3. Select interfaces from the available interface list and add it to the grouped interface list using the arrow buttons to create the required mapping of the ports. Note that these clients may obtain public IP addresses
4. Click Save/Apply button to make the changes effective immediately

IMPORTANT: If a vendor ID is configured for a specific client device please REBOOT the client device attached to the modem to allow it to obtain an appropriate IP address.

Security

IP Filtering

The router supports IP Filtering, which allows you to easily set up rules to control incoming and outgoing Internet traffic. The router provides two types of IP filtering: Outgoing IP Filtering and Incoming IP Filtering. Choose IP from the Rule Type drop down box to configure IP Filtering.



Outgoing IP Filtering

By default, the router allows all outgoing Internet traffic from the LAN but by setting up Outgoing IP Filtering rules, you can block some users and/or applications from accessing the Internet.

To create a new outgoing IP filter, click Add. The Add IP Filter-Outgoing page will be displayed.

Incoming IP Filtering

By default, when NAT is enabled, all incoming IP traffic from WAN is blocked except for responses to requests from the LAN. However, some incoming traffic from the Internet can be accepted by setting up Incoming IP Filtering rules.

To create a new IP filter rule, click Add. The Add IP Filter-Incoming page will be displayed.

Key in the following parameters:

Filter Name Key in the name of the filter rule.

Protocol Select the IP protocol to block.

Source IP Address/Subnet Mask Enter the IP address of the PC on the LAN to block.

Source Port Enter the port number used by the application to block.

Destination IP Address/Subnet Mask Enter the IP address of the remote server to which connection should be blocked.

Destination Port Enter the destination port number used by the application to block.

Click Save/Apply to take effect the settings. The new rule will then be displayed in the Outgoing IP Filtering table list.

To delete the rule, click Remove checkbox next to the selected rule, and click Remove.

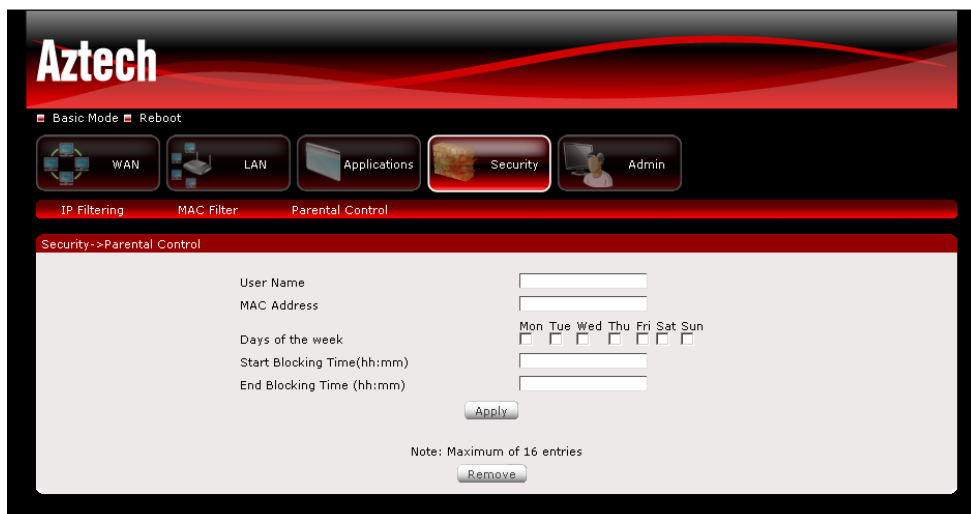
MAC Filter

The router supports MAC Filter, which allows you to easily set up rules to control incoming and outgoing frames for Bridge interface.



Parental Control

Parental Control allows you to apply router access restrictions among LAN devices within specific times in a day. A maximum of 16 restriction rules can be created.



To add restrictions, go to Time Restriction and click the Add button. This opens the Access Time Restriction page. Key in the necessary information and click the Apply/Save button.

To delete a restriction, click Remove checkbox next to the selected restriction, and click Remove.

Key in the following parameters:

User Name Enter a descriptive name for the restriction.

Browser's MAC Address or Other MAC Address Enter the device MAC Address.

Days of the week Click to select the days on which to apply the restriction.

Start Blocking Time (hh:mm) Enter the time when the restriction will be enabled (00:00 to 23:59).

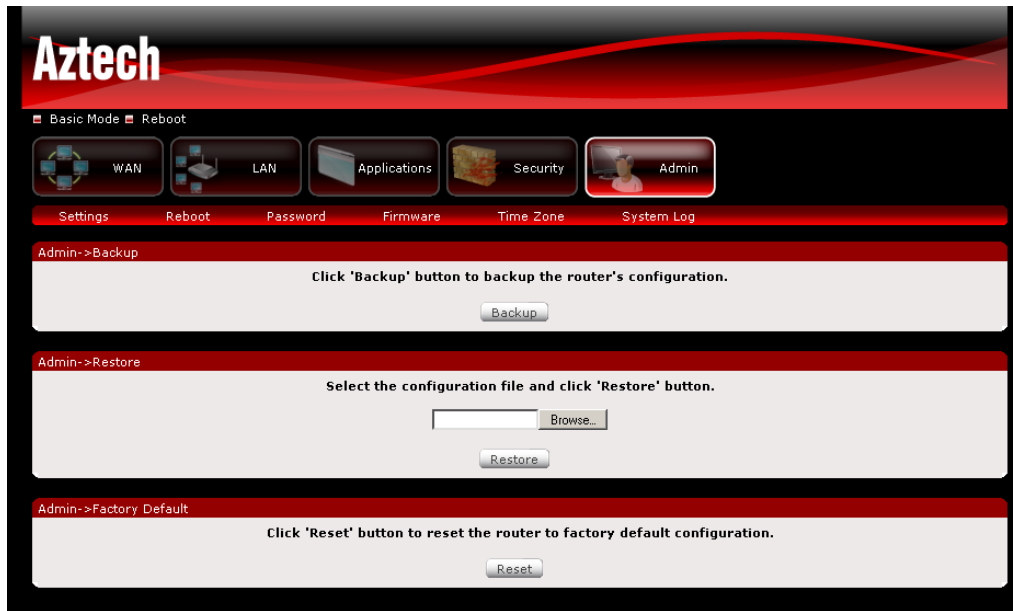
End Blocking Time (hh:mm) Enter the time when the restriction will be disabled (00:00 to 23:59).

Admin

Settings

When it comes to managing the settings that you have executed to the router, you can choose to:

- Backup the settings as a configuration file stored onto your PC
- Update the current settings from a previously saved configuration file
- Erase the current settings and restore the default factory values



Backup

To backup the settings as a configuration file saved on your PC, click Backup Settings.

Select the folder where you want to save the file and key in the file name under which you want to save the settings.

Update

To import a previously saved configuration file from your PC and update the settings of your router, click Browse to locate the binary (.BIN or .IMG) upgrade file. Then click Update Settings.

Restore Default

To restore your router to its factory default settings, click Restore Default Settings. When prompted, click OK.

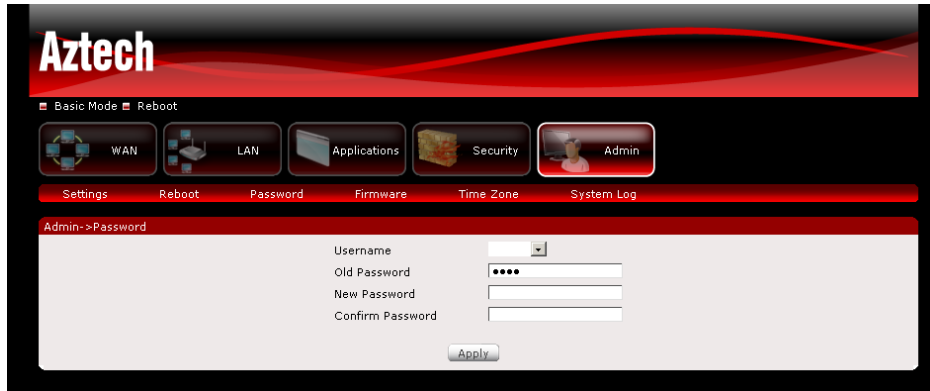
Upon clicking OK, you will be prompted to follow the instruction as shown below.

Reboot

This feature allows the router to enable new network configuration to take effect or to clear problems with the router's network connection.

Password Settings

When you configure the router through an Internet browser, the system requires you to enter your user name and password to validate your access permission. By default, the Username is set to "admin" and the Password to "admin".



The user name "admin" has unrestricted access to change and view configuration of your DSL Router.

The user name "support" is used to allow an ISP technician to access your DSL Router for maintenance and to run diagnostics.

The user name "user" can access the DSL Router, view configuration settings and statistics, as well as, update the router's software.

Use the fields to enter up to 16 characters and click "Apply" to change or create passwords.

Note: Password cannot contain a space.

Firmware Upgrade

Allow you to update the firmware of your router.



To Update the router's firmware:

1. Click Browse
2. Choose the firmware file and click OK
3. Click the Upgrade button

Internet Time

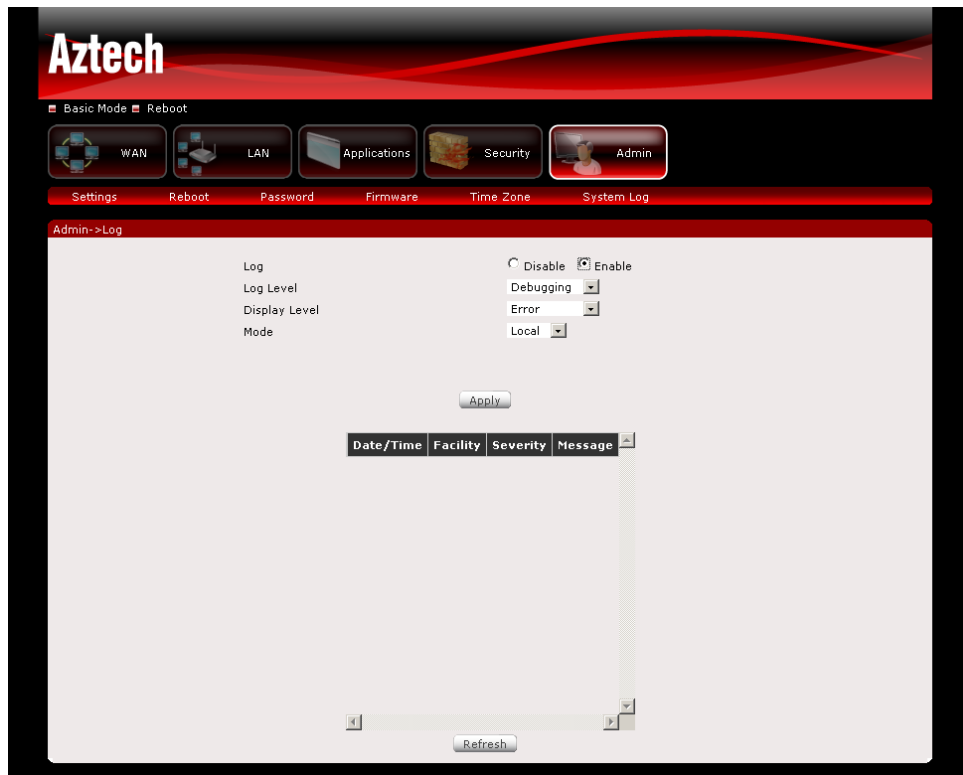
Enable Internet Time to automatically synchronize your time with a time server.



System Log

This feature provides you a comprehensive list of log entries reporting events which you have configured for viewing.

To view the log, click View System Log.



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.