

# AZTECH DSL7002GRV(S)

SingTel - Wireless N Gigabit Ethernet GIGABIT DUAL-BAND Residential Gateway

SINGAPORE | MAY 2013

**Aztech**

Presented by: RIC

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## Hardware Features

### WAN Connection

- ¤ Built-in **ADSL2/2+ modem** for ADSL connection
- ¤ 1-Port **Gigabit Ethernet WAN** Port for ONT (FTTH) Connection

### LAN Connection

- ¤ 4-Port **Gigabit Ethernet LAN**
- ¤ Built-in Wireless a/b/g/n Dual Band Access Point (2.4GHz and 5Ghz)

### Others

- ¤ **2 FXS Ports** for connecting analog Phone sets
- ¤ WPS – Wifi Protected Setup button support
- ¤ 2-Port USB Host for File and Printer Sharing
- ¤ LED Indicators for all interfaces and services

## Firmware Features

- ⦿ Out of the box pre-configuration to support **MIO TV**, **MIO Voice** and **SingNet Broadband**
- ⦿ TR069 Compliant Residential Gateway (auto configuration, remote monitoring/troubleshooting, remote firmware upgrade etc.)
- ⦿ End user **do-it-yourself** installation and configuration through push pages for **ADSL**
- ⦿ **Zero configuration** Internet installation for **FTTH**
- ⦿ **Unique Wireless SSID** and **Wireless Key** for each of the unit (default wireless credentials are printed on the casing label sticker)
- ⦿ **Dynamic LAN Port mapping** for the **IPTV – STB**
- ⦿ Port Forwarding and DMZ support, configurable from the user mode pages
- ⦿ Push page support for Suspected missing microfilter for ADSL
- ⦿ Standard support for Wireless Security / Encryption

## Front Panel Indicators and Button

- ¤ Power
- ¤ Ethernet LAN Ports 1 to 4
- ¤ Wifi (2.4GHz and 5GHz) **NEW**
- ¤ Voice 1 and 2 (Telephone)
- ¤ USB
- ¤ IPTV
- ¤ Broadband (ADSL and Ethernet WAN)
- ¤ Internet
- ¤ WPS Indicator and button

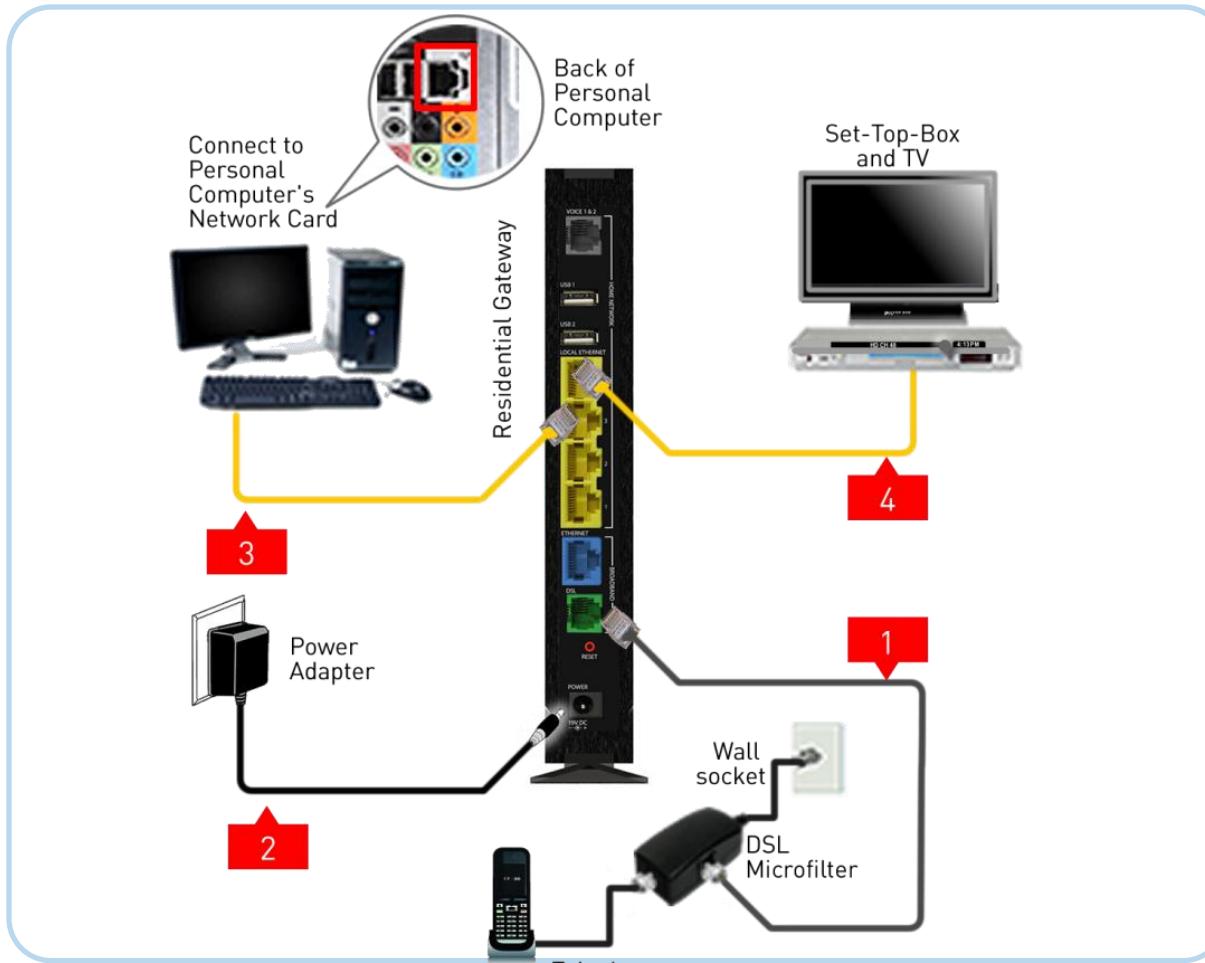


## Back Panel Ports and Button

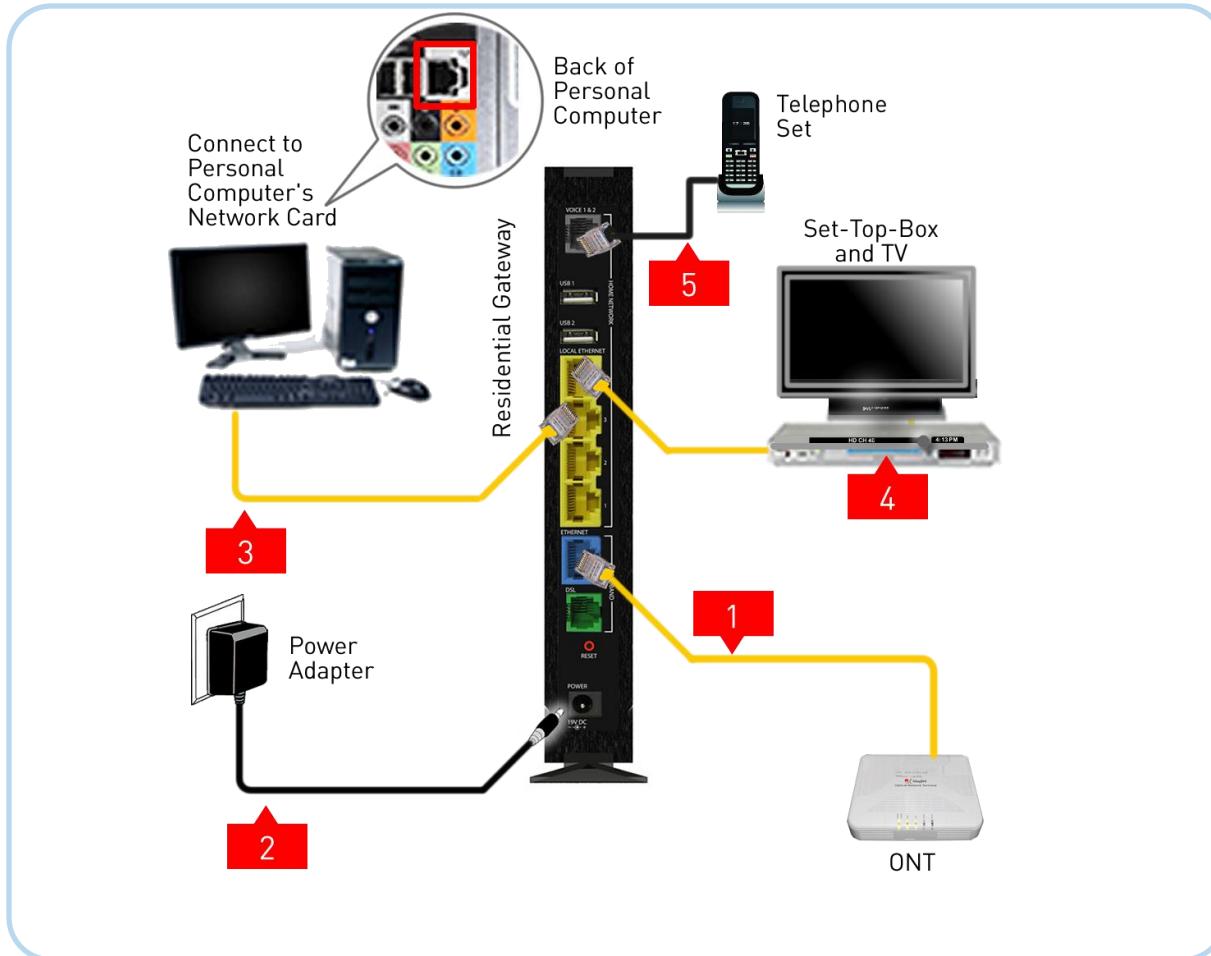
- ¤ Voice 1 and 2
- ¤ USB 1
- ¤ USB 2
- ¤ Ethernet LAN Ports 1 to 4
- ¤ Ethernet WAN Port
- ¤ ADSL Port
- ¤ Reset button
- ¤ Power Adapter Jack



## Recommended Hardware Setup (ADSL)



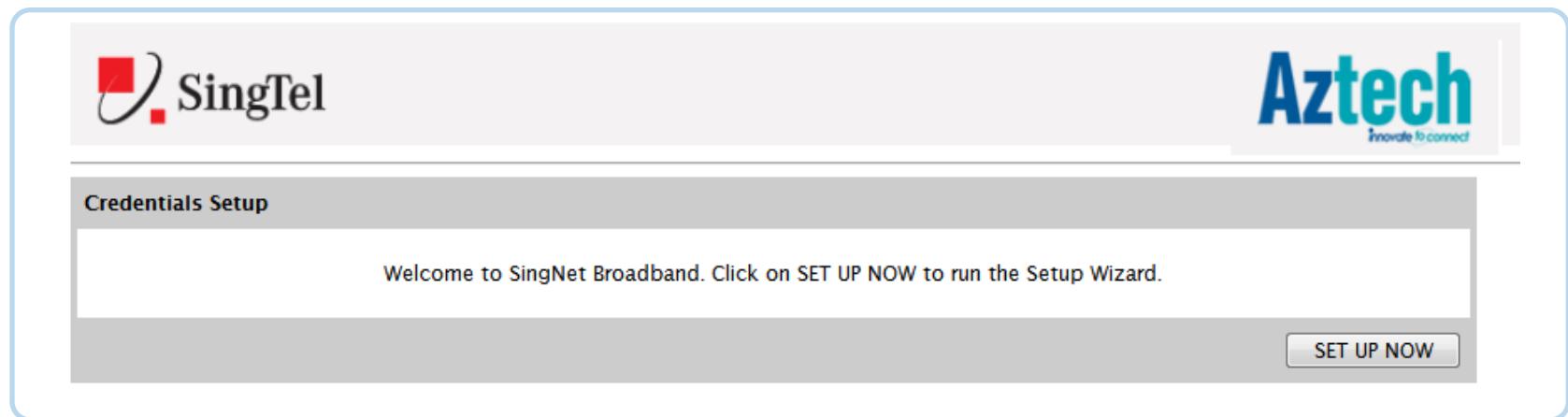
## Recommended Hardware Setup (FTTH)



# connecting to singnet broadband

## ADSL

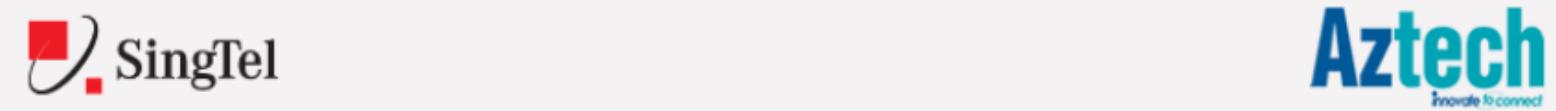
1. Open your web-browser (e.g. Internet Explorer). You should see the following the screen. Click on "SET UP NOW".



# connecting to singnet broadband

## ADSL

2. Input the User ID and Password on the "Username" and "Password" fields and click the "Connect" button.



**Enter User Name and Password**

Your default Username and Password can be found in the Service Letter received from your Internet Service Provider.

Username:  For example: if your user ID is "bob", enter user name as "bob@singnet"

Password:

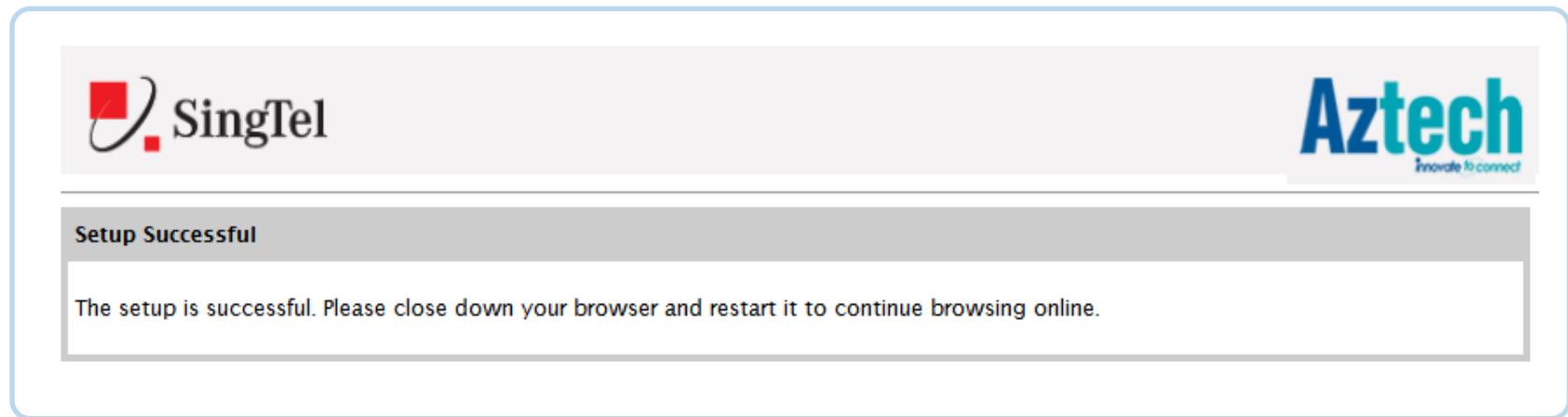
**Connect**

**Note:**  
Please ensure that you have entered your correct Username and Password before clicking the "Connect" button.

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## ADSL

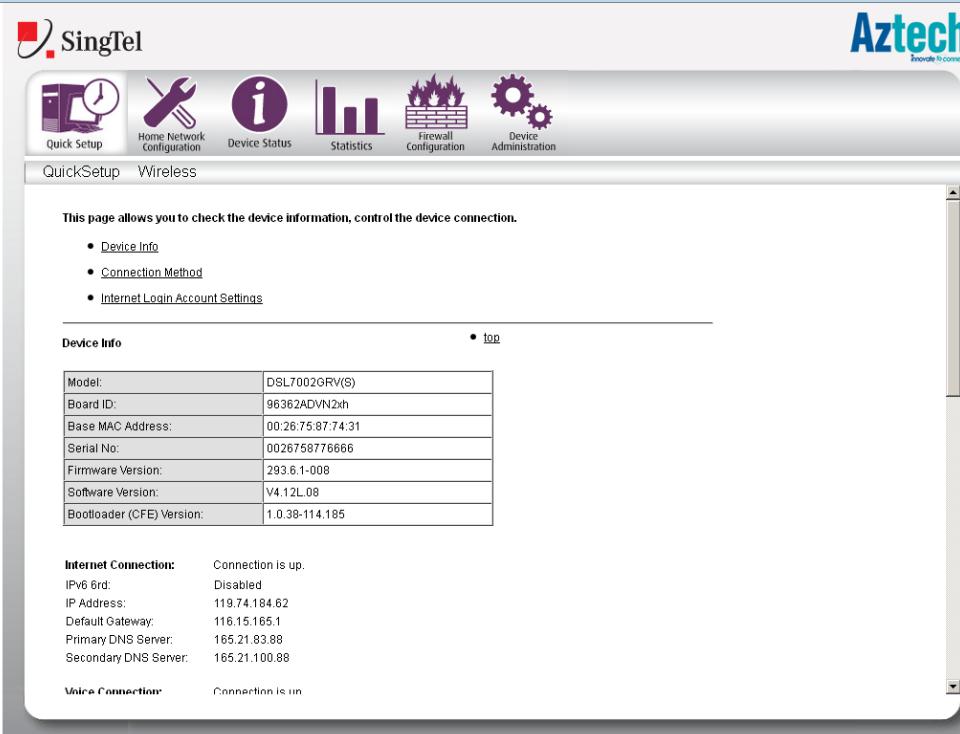
3. If you entered the "Username" and "Password" correctly, you will be redirected to the "Setup Successful" page



# connecting to singnet broadband

## FTTH

To check the Internet connection for FTTH , go to <http://192.168.1.254>, scroll down to Device Info> Internet Connection



## The Default Wireless Configuration

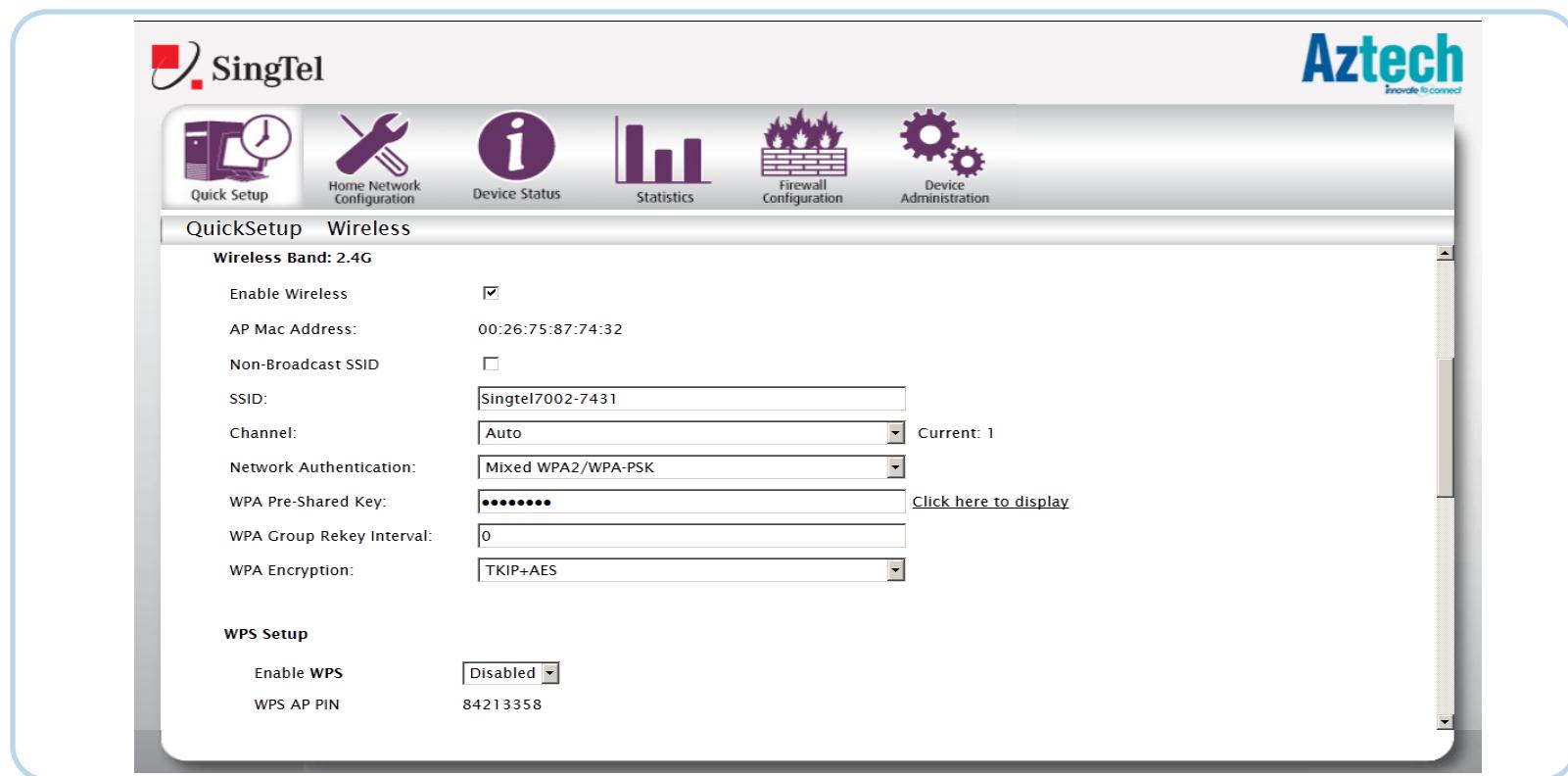
Each unit is preconfigured with a unique wireless network name and a unique password. The information on the default wireless can be found on the casing label sticker.



- ¤ The default wireless authentication is **Mixed WPA2/WPA-PSK**
- ¤ The wireless encryption is **TKIP + AES**
- ¤ Wireless channel is set to **Auto**
- ¤ The **WPS button** is **disabled** by default.  
(Enabled on FW ver. 293.6.1-009 onwards)

## Changing the Wireless Settings

Open your web-browser (e.g. Internet Explorer) and go to <http://192.168.1.254>, look for Wireless Settings sub-menu under QuickSetup icon.

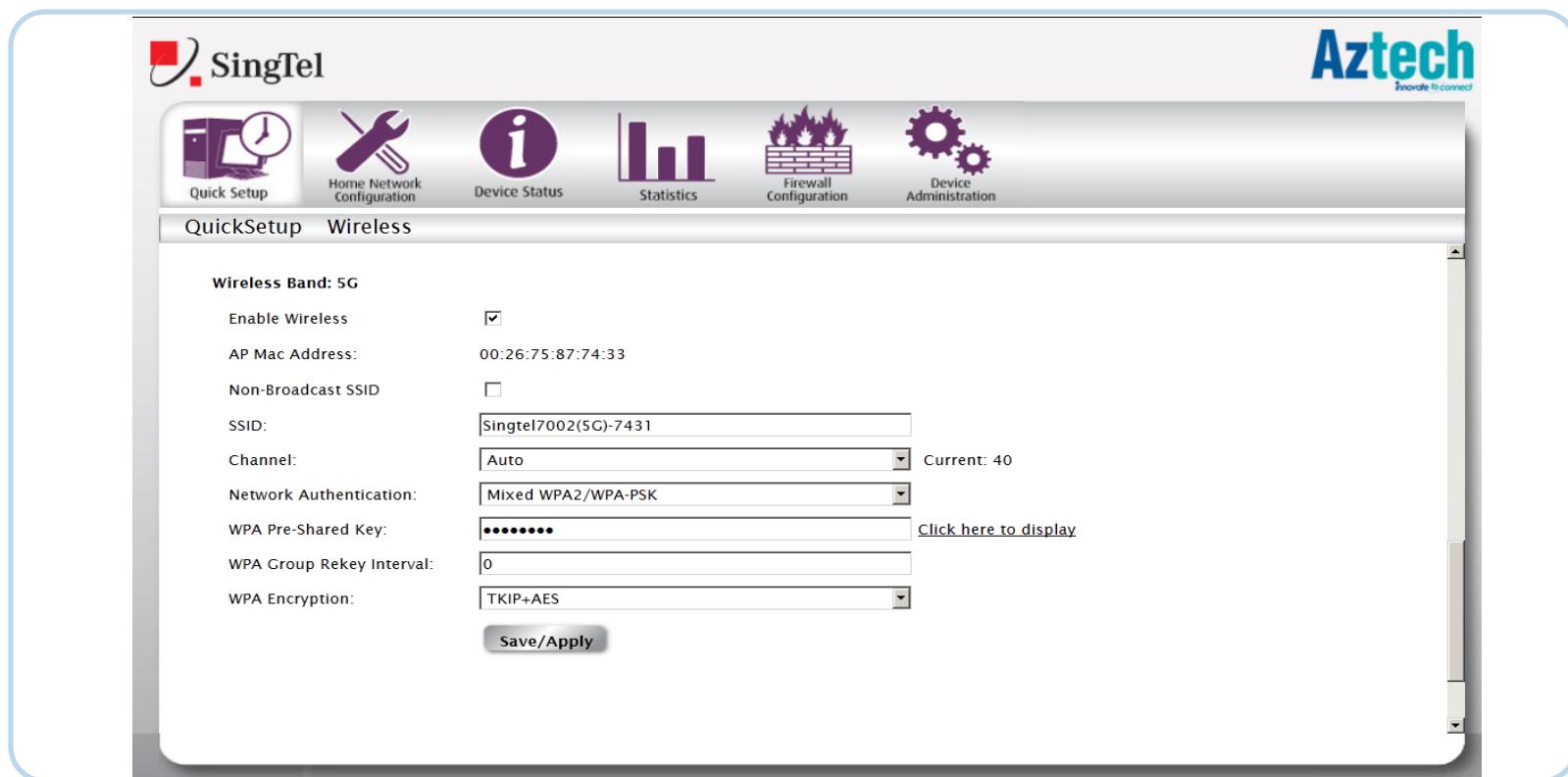


5GHz

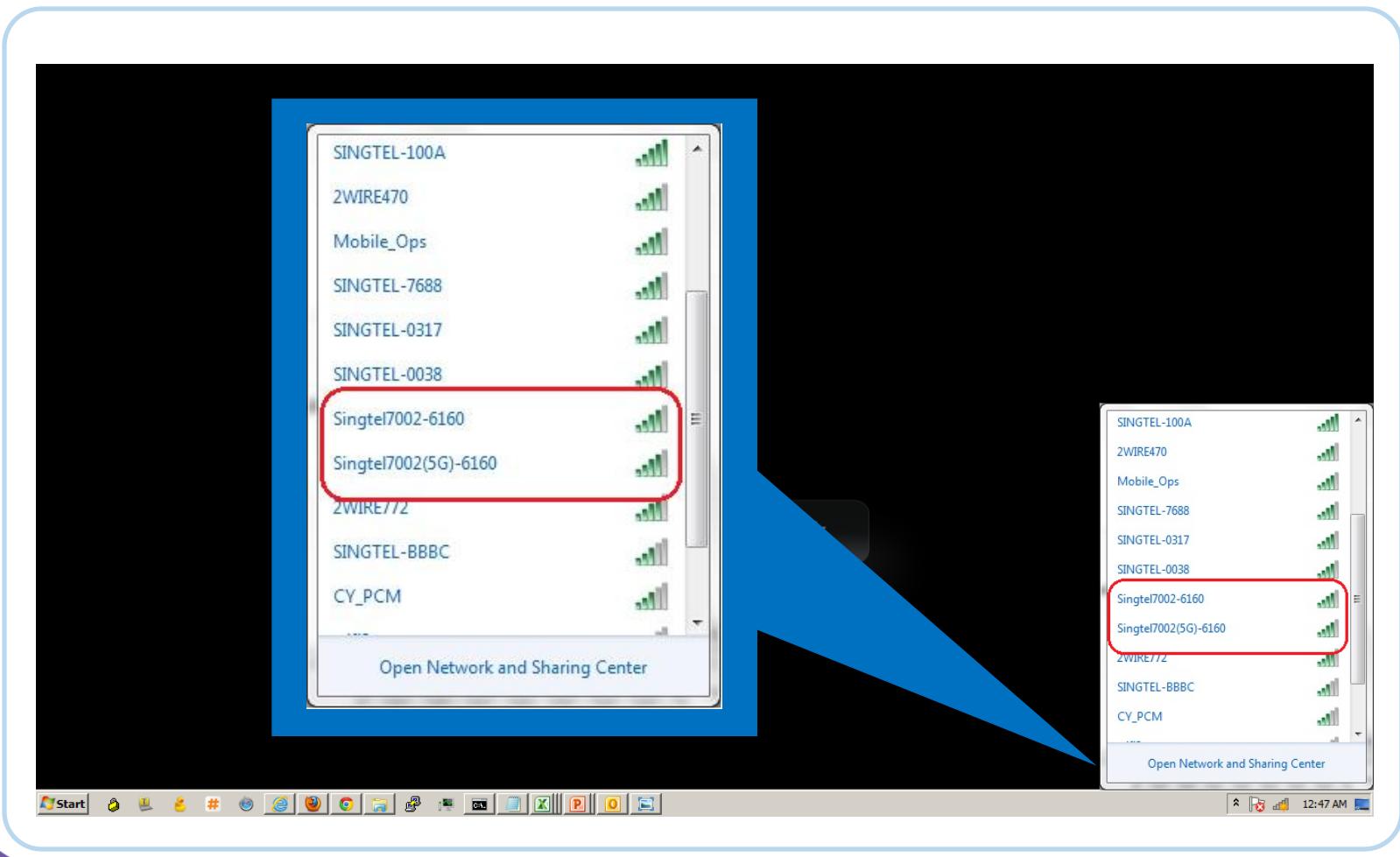
NEW

wireless connection

The internet surfing experience is likely to improve on 5GHz with probably lesser wireless interference. Do take note that the 5GHz SSID can only be detected if your end device supports 5GHz wireless interface as well.



## Connecting to 5GHz Band



## Known wireless devices that supports 5GHz band

- iPhone 5
- iPad 2
- iPad 3
- iPad 4
- iPad mini
- HTC One
- HTC One S
- HTC One X
- Sony Experia Z
- HTC Evo 4G LTE
- Samsung Galaxy S2
- Samsung Galaxy S3
- Samsung Galaxy S4
- Samsung Galaxy Note 10.1
- Samsung Galaxy Tab 2 7.0 (GT-P3113)
- Samsung Galaxy Note 1
- Samsung Galaxy Note 2

## Incoming and Outgoing Firewall Settings

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Quick Setup Home Network Configuration Device Status Statistics Firewall Configuration Device Administration

Settings Port Forwarding DMZ

**Firewall Settings**

By default, all outgoing IP traffic from LAN is allowed, but some IP traffic can be **BLOCKED** by setting up filters.

Meanwhile, all incoming IP traffic from the WAN is blocked when the firewall is enabled. However, some IP traffic can be **ACCEPTED** by setting up filters.

Choose Add or Remove to configure outgoing/incoming IP filters.

**IP Filtering List**

Filter Name:	Direction:
	Incoming
Protocol:	
Source IP address:	
Source Subnet Mask:	
Source Port (port or port:port):	
Destination IP address:	
<input type="checkbox"/> Destination Subnet Mask:	
Destination Port (port or port:port):	

**WAN Interfaces (Configured in Routing mode and with firewall enabled only)**  
Select at least one or multiple WAN interfaces displayed below to apply this rule.

Select All  
 INTERNET/eth0.1

**Save/Apply**

# Port Forwarding

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Quick Setup Home Network Configuration Device Status Statistics Firewall Configuration Device Administration

Settings Port Forwarding DMZ

**Port Forwarding**

Select the service name, and enter the server IP address and click "Save/Apply" to forward IP packets for this service to the specified server.

NOTE: The "Internal Port End" cannot be changed. It is the same as "External Port End" normally and will be the same as the "Internal Port Start" or "External Port End" if either one is modified.

Use Interface: INTERNET/eth0.1

Server Name:  Select a Service:  Custom Server: Select One

Server IP Address: 192.168.1.

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

Save/Apply

Remaining number of entries that can be configured:32

Port Forwarding list

## firewall configuration

## DMZ

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Quick Setup Home Network Configuration Device Status Statistics Firewall Configuration Device Administration

Settings Port Forwarding DMZ

**DMZ Host**

The Residential gateway will forward IP packets from the WAN that do not belong to any of the applications configured in the Port Forwarding table to the DMZ host computer.

Enter the computer's IP address and click "Apply" to activate the DMZ host.

Click "Remove" to deactivate the DMZ host.

Hostname	MAC Address	IP Address	Expires In
redtag-desktop	ac:81:12:2d:7c:1f	192.168.1.2	2 hours, 24 minutes, 58 seconds

DMZ Host IP Address:

**Save/Apply** **Remove**

# voice service configuration

## Configuring the VOIP Username and Password

The voip username and password can be configured on the [admin page](#). It's under [Home Network> Voice](#).

**Voice - SIP Settings**

Enter the SIP parameters and click Save button to save the parameters and start the voice application.

Line	Enable	Username	Password	Status
1	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Unregistered
2	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Unregistered

**Save** **Refresh**

## LED Troubleshooting

### Power

- ¤ Blinking Red<-> Green – firmware upgrade in progress
- ¤ Steady Red – reset button is pressed
- ¤ Steady Red – unit is booting up or unit failed to boot
- ¤ Green – firmware is loaded to the RAM
- ¤ Off – no power or PSU faulty

### Ethernet LAN 1-4

- ¤ Blinking Green – indicates activity on the port
- ¤ Steady Green – ethernet device is connected to the port
- ¤ Off – there is no ethernet device plugged in to the port

## LED Troubleshooting

### Wireless

- ¤ Steady Green – wireless device(s) associated to the wireless AP
- ¤ Blinking Green – indicates wireless activity
- ¤ Off – no wireless device associated with the AP or AP is not activated

### Voice 1 and 2

- ¤ Steady Green – voice account is registered
- ¤ Blinking Green – indicates an on going call or the phone is off hook
- ¤ Off – voice account is not set or account registration failed

## LED Troubleshooting

### USB

- ¤ Steady Green – USB device is connected to the port
- ¤ Off – no device is connected

### Broadband on ADSL

- ¤ Steady Green – DSL is synchronized
- ¤ Blinking Green – DSL training
- ¤ Off – No ADSL line detected

### Broadband on FTTH

- ¤ Steady Green – WAN ethernet port is connected to the ONT or an ethernet device
- ¤ Off – No connection on the WAN ethernet

## LED Troubleshooting

### IPTV

- ¤ Steady Green – IPTV service is working, STB is plugged in and streaming
- ¤ Steady Red – STB is not plugged in or STB in on DRA mode (if STB is plugged in) or STB is rebooting (if STB is plugged in) or IPTV service failed (if STB is plugged in) or no multicast streams coming (if STB is plugged in)
- ¤ Off – no service or service is down

### Internet on ADSL

- ¤ Steady Green – PPP connection is up and the interface is with an IP address
- ¤ Blinking Green – indicates internet activity
- ¤ Steady Red – PPP authentication failed
- ¤ Off - PPP is not set

## LED Troubleshooting

### Internet on FTTH

- ¤ Steady Green –connection is up and the interface is with an IP address
- ¤ Off - no internet connection

### WPS

- ¤ Steady Green –WPS is activated
- ¤ Blinking Green – WPS is ready to connect
- ¤ Off - WPS not activated

## Wireless Troubleshooting

1. Always start with the wireless credentials, SSID and wireless, if the wireless clients cannot connect to the AP
2. Think of the possibility of wireless channel congestion
  - ¤ Change to other wireless channels, rarely used channels, 7, 8, 9, 2, 3
  - ¤ If the wireless channel is so congested, the wireless client may get an IP address but might not be able to, from time to time, surf the internet or use the wireless network resource
3. Place the RG on a flat surface away from:
  - ¤ Blockage such as artificial barriers
  - ¤ Electronic devices such as bluetooth devices, microwave ovens and cordless telephones
  - ¤ Water containing equipment filled with water

## Frequently Asked Questions

CAN I USE BOTH 2.4GHz AND 5GHz BAND AT THE SAME TIME?

Yes, both bands are enable by default

WHAT IS THE MAXIMUM NUMBER OF CLIENT IT CAN SUPPORT FOR WIRELESS?

30 for 2.4ghz band and 30 for 5ghz band.

WHAT ARE THE STORAGE FORMATS DOES IT SUPPORT FOR USB?

FAT, FAT32 and NTFS.

CAN I CONFIGURE MAC FILTERING ON DSL7002GRV(S)?

No, MAC filtering feature is not supported

# Frequently Asked Questions

## HOW CAN I TELL IF MY WIRELESS ADAPTER SUPPORTS 5GHZ BAND?

List of wireless standards and its compatibility.

Wireless Standards Wireless Client	2.4 GHz (20MHz/40MHz)	5 GHz (20MHz/40MHz)	5 GHz (80MHz)
802.11ac	✓	✓	✓
802.11abgn	✓	✓	
802.11a		✓	
802.11b	✓		
802.11g	✓		
802.11n	✓		

Service Center Address:

31 Ubi Road 1 Aztech Building  
Lobby B 5th Floor  
Singapore 408694

Hotline:

6594 2297

Email:

[support@aztech.com](mailto:support@aztech.com)

Operating Hours

Monday to Friday: 9:00 AM to 6:15 PM

Saturday: 9:00 AM to 1:00 PM

(Except Public Holidays)

# Thank You

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