



Allied Telesyn

**240E ADSL Router**

Quick Setup Guide

Software version 1-2-0

Document Version 2.0

## **Important**

This guide is written to help get you up and running as quickly as possible using Telecom's ADSL and Telstraclear's ADSL networks.

This guide complements the ADSL Installation Guide supplied with the unit.

### **Contents inside the Box :**

- AT-AR240E ADSL Router
- 240 Volt to 5Volt 2.5 Amp Power supply
- ADSL telephone cable (RJ-21 to BT)
- Straight Cat5 Ethernet cable (RJ-45)
- USB cable
- AT-240E Installation Guide

**The full product manual can be downloaded from:**

<http://www.alliedtelesyn.net.nz/Products/adsl.htm>

**Latest New Zealand Quick documentation and SW updates can be downloaded from:**

<http://www.alliedtelesyn.net.nz/products/adsl.htm>

## **A** Default Settings for New Zealand

<b>Router IP Address</b>	: 192.168.1.1
<b>Router Subnet Mask</b>	: 255.255.255.0
<b>VPI</b>	: 0
<b>VCI</b>	: 100
<b>Authentication</b>	: PPP using PAP
<b>Connenction Type</b>	: PPPoA Routed (by default, do not change)
<b>Encapsulation</b>	: Vc-Mux (by default, do not change)
<b>WAN IP</b>	: Dynamic (by default, do not change)
<b>DNS Discovery</b>	: Enabled (by default, do not change)
<b>DSL Configuration</b>	: G.DMT/Multi
<b>DNS Relay</b>	: Enabled
<b>DHCP Server</b>	: Enabled
<b>Security :</b>	
<b>Firewall</b>	: Off
<b>Intrusion Detection</b>	: Disabled

### **Management and configuration access (for telnet and web access) :**

<b>User Name</b>	: Manager
<b>Password</b>	: Friend

## **B** Preparation

Before you start, make sure your computer meets the minimum requirement below:

### **Computer Requirements :**

- Ethernet network card (NIC) or USB installed on your PC
- TCP/IP protocol is installed for the network card
- IE 5 or later, Netscape 6 or later

### **Note :**

- For the ethernet connection type for standalone computers connect using the enclosed "straight cable" Ethernet cable.
- For ethernet connection type via hub/switch to a LAN, connect the straight cable to the UPLINK port of the hub/switch or connect using a "cross-over" Ethernet cable to any other port of the hub/switch but uplink port.
- For USB connection type for standalone computers, you must install USB driver to get it done. The driver can be found on the enclosed CDROM.

### **Details from your ISP :**

- Login name and password  
e.g. [user.name@yourisp.co.nz](mailto:user.name@yourisp.co.nz)
- DNS server(s) ip address(s)  
e.g. 203.96.91.1

## **C** Connecting the AR240E

For a step by step guide Refer to the **Installation guide** on **Pages 10-11 for a PC :**

- Connect the telephone cable (provided) to the AR240E then connect the other end to the ADSL port that telecom has installed. Do not connect the ADSL Router through Microfilter.

- Connect the Ethernet cable (provided) to your PC's NIC and the other end to the 240E.
- Connect the power to the wall socket and the other end to the 240E.
- Ensure the power is on at the wall.

## **D** Setting up a Windows based PC

For a step by step guide of setting up a pc with USB please refer to the **Installation guide on Pages 12-15**

For a step by step guide of setting up a pc with Ethernet please refer to the **Installation guide on pages 16-17**

In order to connect via web Browser you have to configure the TCP/IP properties for your local PC. You can let the **AR240E (DHCP enabled) allocate an ip address automatically** by setting your pc to obtain the "IP address automatically". You can also **manually** assign your PC an **IP address** from 192.168.1.2 to 192.168.1.254 with a **subnet mask** of 255.255.255.0 and **DNS** address from your ISP as follow.

### For windows 95/98/ME

- From your windows desktop right click on the "Network Neighbourhood" icon. Select **Properties**.
- From the **Configuration** tab select TCP/IP and click **properties**.
- Select the **IP address tab**.
- Click the option to **Specify an IP address**.
- Enter **IP address = 192.168.1.x** (x is any number between 2 and 254)
- **Subnet Mask = 255.255.255.0**
- Click on the **Gateway** tab.
- Set the **New Gateway = 192.168.1.1** Click the **Add button**.
- Click on the **DNS** tab, click **enable DNS**
- Enter your ISP's DNS server IP address. **Click the Add button**.
- If you don't know the ISP's DNS server use 203.96.91.1
- Click **OK** then **OK** to save the settings.
- You may be asked to **restart** the PC. **Click Yes**

### For Windows 2000/XP

- **Settings - Control panel – Network Connections**
- **Click Properties**
- Open **Local Area Network Connections. Double Click** Internet protocol (TCP/IP)
- Select Use the following IP address
- **IP address = 192.168.1.x** (x is any number between 2 and 254).  
**Subnet mask = 255.255.255.0**  
**Default Gateway = 192.168.1.1**
- Select Use the following DNS  
Obtain **DNS Server** IP Address from your ISP or else you can use these :
  - **Preferred DNS = 192.168.1.1**
  - **Alternate DNS = 203.96.91.1**

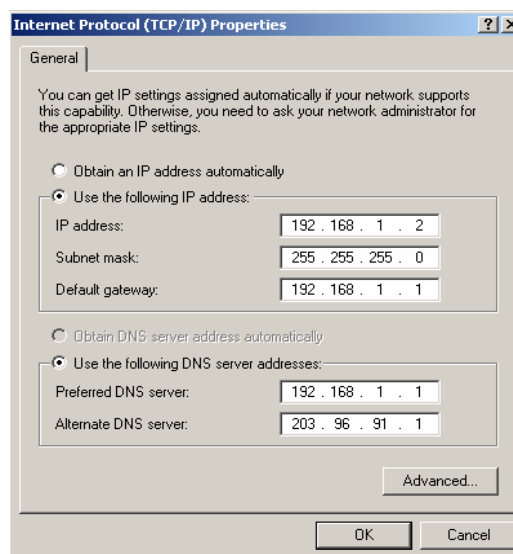


Figure 1

# E Get ONLINE

To browse the AT-AR240E web interface, please ensure that your Web Browser is Microsoft® Internet Explorer 5.0 (or later) and disable any proxy settings on your Web Browser. Enter the IP address (with the http:) <http://192.168.1.1:8080> in the browser's Address Bar and press **Enter**. You will be required to login as follows:

**Username = manager**  
**Password = friend**

Login with the Username "manager" and default password of "friend" and then click on the "OK" button. The screen to the right will be displayed. Click on the "ADSL Router" button on the left hand side.

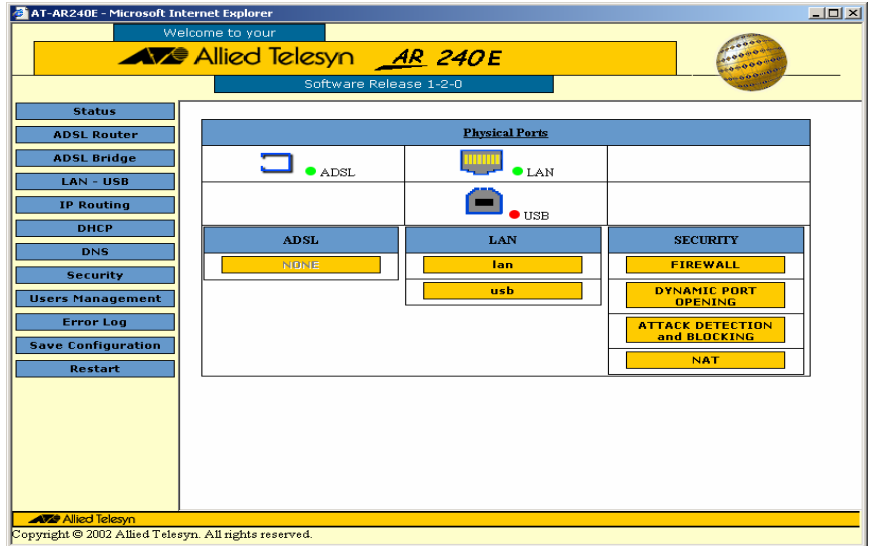


Figure 2

**STEP 1** In the **name** field type a name for this connection. The **VPI is 0** and the **VCI is 100**.

**STEP 2** Select the **PPP** Radio Button. You will need to select **PAP** then type the username and password supplied by your ISP.

**STEP 3** Make sure the **PPPoA Routed** is selected. Click the yellow **add** button next to the PPPoA.

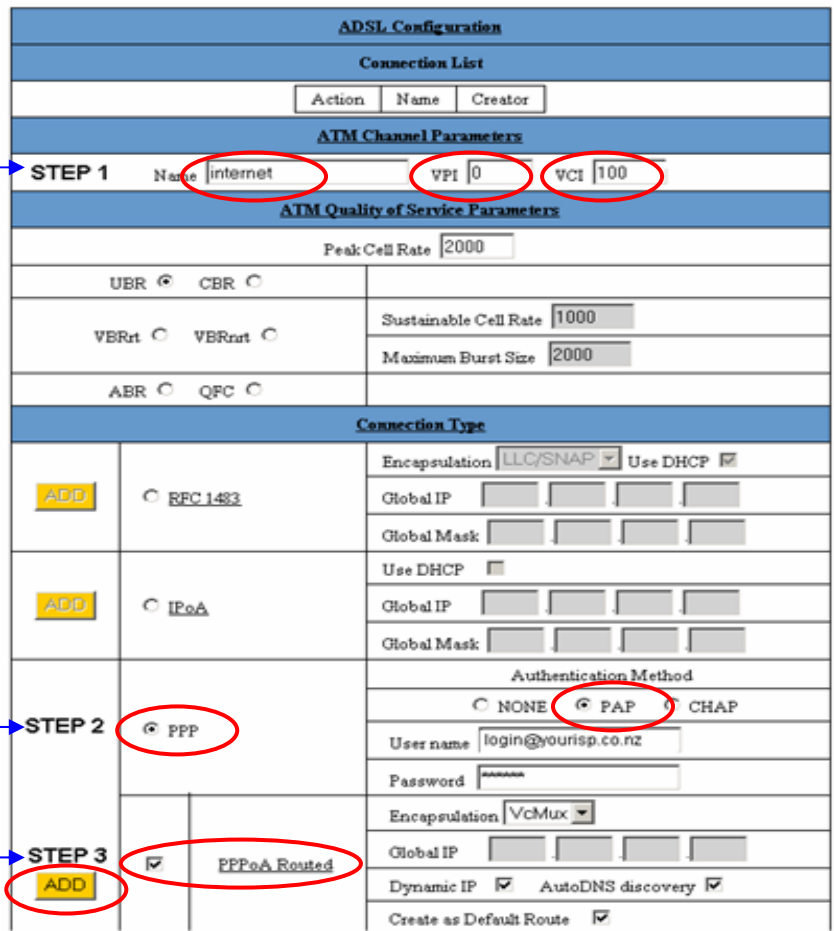


Figure 3

The page will show the new ADSL connection settings name at the top in the centre of the screen. See figure 4.

ADSL Configuration		
Connection List		
Action	Name	Creator
<b>Delete</b>	internet	manager

Figure 4

**Setting up and enabling NAT**

**STEP 4**

Press the blue "Security" button on the left.

**STEP 5** Click the **enable** radio button and press yellow **apply** button.

You can now define security interfaces from the drop down boxes. Define the security interfaces as shown in the picture (Figure 5)

Security			
Enabled	<input checked="" type="radio"/>	Disabled	<input type="radio"/>
Firewall	<input type="radio"/> Enabled	<input checked="" type="radio"/> Disabled	<b>Configure</b>
Dynamic Port Opening			<b>Configure</b>
Attack Detection and Blocking	<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled	<b>Configure</b>
NAT			<b>Configure</b>
<b>Apply</b>			

Interfaces List		
Name	Type	Action
lan	internal	<b>Delete</b>
usb	internal	<b>Delete</b>
internet	external	<b>Delete</b>
internet	external	<b>ADD</b>

Figure 5

The "internet" interface circled with the red line (Figure 5) may vary depending on the name you typed on **STEP 1**

Now click on the yellow **configure** button for NAT

Figure 6

within the NAT window click **configure** for the "internet" row. Then click, "enable NAT to internal interfaces". The screen below (Figure 7) appears and internet browsing should now be possible.

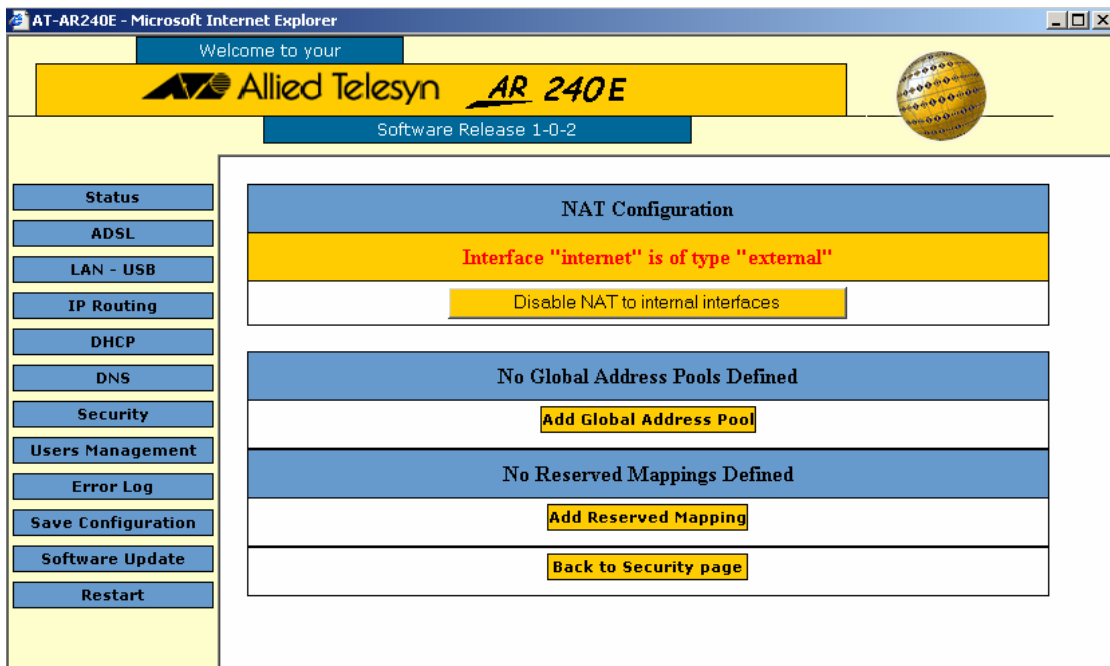


Figure 7

If incoming **"Pin Holes"** are required for local servers to be accessed (e.g. Web and SMTP servers), click on **Add Reserve Mapping** and add the service appropriately. The AR240e can map **all** in the "protocol" field if everything is to be passed to an internal firewall/proxy.



Your global ip address can be obtained from the **status** (home) page and then click on the yellow **"internet"** adsl definition button to display your **public/internet IP address** and **DSL Connection rate**. See **Figure 8** below.

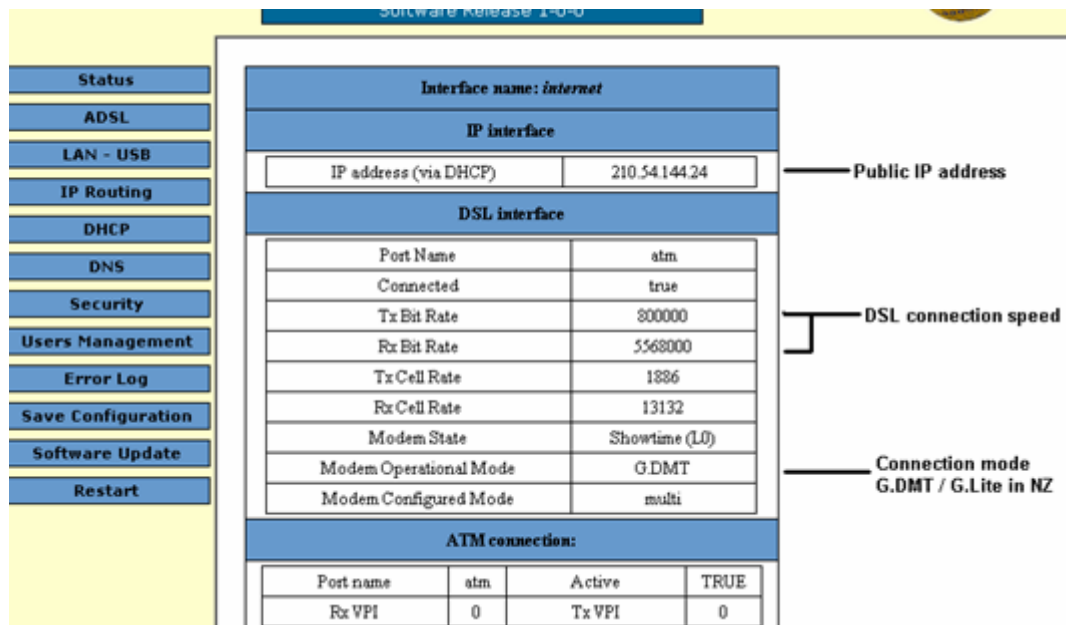


Figure 8



**Click** on the blue **“Save Configuration”** button. The screen will show **Figure 9**. Press the yellow **“Save”** button. The window will remain for up to a minute as the configuration is saved. Once the configuration is saved the screen will show **Figure 10**.

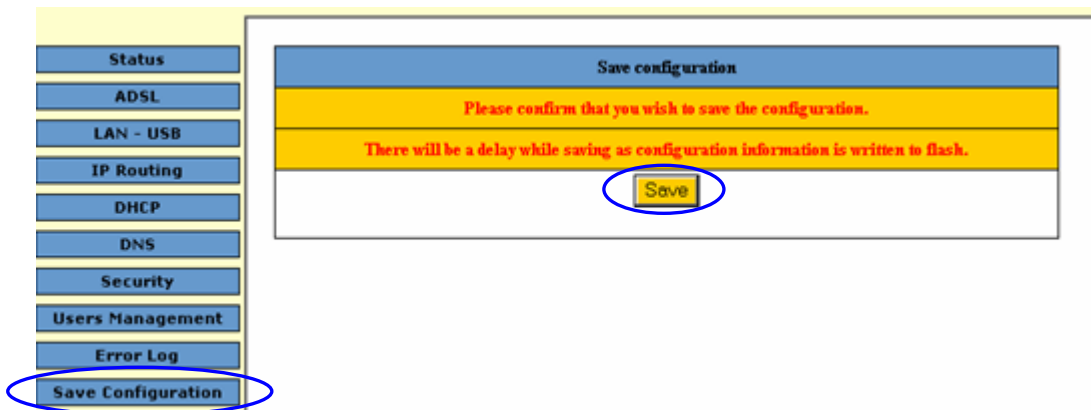


Figure 9

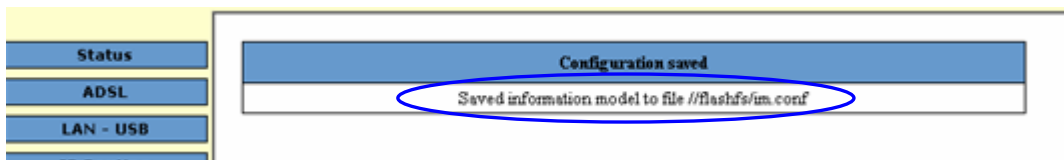


Figure 10



### **Adding Firewall Functionality (for advanced users)**

To add firewall functionality please refer to **“240E FAQ”** (pdf file) in the website : <http://www.alliedtelesyn.net.nz>



## Help

Always check that the router is installed properly. Check the website for information and how to troubleshoot the router. If you have difficulties contact your reseller or distributor for technical assistance relating to warranties, installation and operation. They will escalate the problem through the appropriate channels.

### Allied Telesyn New Zealand Distributors are



**Connector Systems Ltd**  
5A Pacific Rse  
Mt Wellington Auckland  
Free Phone: 0508 Call CSL

Website : <http://www.connectorsystems.co.nz>  
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**Express Data NZ**  
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3-11 Hunter Street  
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Website : <http://www.expressdata.co.nz>  
Email : [sales@expressdata.co.nz](mailto:sales@expressdata.co.nz)

**Renaissance Wholesale**  
**Renaissance Ltd**  
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## Allied Telesyn

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Knowledge base : <http://kb.alliedtelesyn.com>

## Troubleshooting



### **Unable to open the Router Web GUI from my browser**

- a. Check the light on unit for either the Ethernet or USB light is on. If it's not, please check the associated cable. Ethernet Cable supplied is for AR240E to PC-connection. To connect AR240E to hub/switch, please use cross-over cable (not supplied)
- b. The Router's private IP is 192.168.1.1 by default. Please assign an IP Address to your PC in the range of 192.168.1.2 – 192.168.1.254 or use DHCP.
- c. To test connectivity, please use **Ping** utility.  
Go to **Start-Run**. Type "**command**" then **OK** (In WinXP/2000/NT4 click **Start-Run**. Type "**cmd**" then **OK**). Type ping **192.168.1.1** then press **Enter**.

```
Pinging 192.168.1.1 with 32 bytes of data:  
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64 ...
```

You should see a reply as above. If not, there is a problem with the network. Please check cable plugged in.

- d. If your Router is connected to a hub or switch, try connecting the Router directly to the PC.
- e. Previous dialup-modem setting can cause issues with browser configuration. Check the browser configuration is not set to use a dialup modem connection.
- f. Disable any virus scanner or personal firewall software temporarily. If you are using Internet Explorer please reset the security level to **default**.
- g. If the LAN already has a DHCP server enabled, disable it.



### **Unable to connect to the Internet**

1. Ensure the Router's ADSL light is on. If light does not come on after 2 minutes, please check that:
  - The ADSL line has been enabled by Telecom/Telstraclear
  - The AR240E Router is connected to the correct jackpoint
2. Ensure the Router is getting a Public IP address, open the ADSL Router AR240E Web GUI, click "**status**" button, then click the **yellow ADSL name** button. If **the IP address** shown is **0.0.0.0** you are not on line. Please check VCI=0 and VPI=100, login name and password from ISP, e.g. **Figure 8**.
3. Try pinging a public IP address on the internet e.g.

```
Pinging 210.54.62.133 with 32 bytes of data:  
Reply from 210.54.62.133: bytes=32 time=40ms TTL=64 ...
```

If this does not work, please check the NAT Interface settings, e.g. *page 6 Figure 5* and check NAT is enabled e.g. *page 7 Figure 7*.



### **Forget the password?**

Restore the Router to factory defaults. Please power cycle the router and during power cycle please push the reset button with pin next to Ethernet Port. Push pin in for 45 seconds.