



# ADSL Router

## Quick Setup Guide

RTA300



## Important

This Guide is intended to get you started quickly. The factory default profile of this Router is customised for New Zealand users. Please follow through the steps we describe here to install and set up your Router.

This Guide should be read in conjunction with the RTA300 Series **ADSL Router User's Manual**. This is provided as a PDF file on CD. You can return to the previous menu, click on the View User Manual button to view or print. For the remainder of this Quick Set Up Guide all references to the Users Manual refer to this PDF file.

**Note:** The *User's Manual* was written for international users. New Zealand users should skip most sections of Chapter 3, except *PPPoA+NAT mode*. PPPoA+NAT is the only connect mode currently supported in New Zealand.

Advanced users who have other setup preferences should refer to the *User's Manual*. There is a table in Section 8 of this Guide to assist you in locating the relevant material.

Important Safety Notes can be found on page III of the *User's Manual*.

## Contents inside this box:

- RTA300 ADSL Router
- Power adapter 12VDC 1A
- ADSL line cord for New Zealand
- RJ-45 Ethernet cable (straight through cable)
- USB cable
- Driver & Utility CDROM (User's Manual included)

If you connect via Ethernet port instead of USB port, there is no driver to load.

## 1 *Default Configuration for New Zealand*

This Router is shipped with the following factory default settings.

Router IP address	192.168.1.1	
Subnet mask	255.255.255.0	
VPI	0	(do not change)
VCI	100	(do not change)
Encapsulation	PPPoA VC-MUX	(do not change)
NAT	enabled	(do not change)
DSL line mode	auto	
WAN IP	dynamic	
DHCP	enabled	
UPnP IGD	disabled	

### **Security:**

Firewall	off
Intrusion Detection	disabled

### **Router configuration & management:**

Administrative User name	admin
Administrative Password	admin
Telnet password	admin

Users must not change the VPI, VCI, Encapsulation or NAT settings. DSL line mode can be set to either auto or G.dmt. Advanced users who have other setup preferences should refer to the *User's Manual*.

## 2 *Before you start*

Make sure your computer has the following installed:

- ⊗ An Ethernet or USB port (see 'Choose your connection option' below)
- ⊗ TCP/IP protocol
- ⊗ A web browser, Internet Explorer 5.0/Netscape 6 or better

Obtain the following information from your ISP:

- ⊗ Login user name and password
- ⊗ Public IP address (Note: only required if you purchase a static IP)
- ⊗ DNS server IP address (if specified by ISP)

Choose your connection option:

- ⊗ Ethernet (for a standalone computer)  
Connect using the enclosed "straight through" Ethernet cable.

- ⊗ Ethernet (connecting up to 4 networked computers, or to a LAN)  
Connect using the provided Ethernet cable to any of the Ethernet ports (LAN1 to LAN4) of the router. Up to four computers can be connected. If you have more than 4 computers or an existing LAN, connect one of the LAN ports of the router to your network hub. Extra Ethernet cables are not provided.
- ⊗ USB (for standalone Windows 98/ME/2000/XP computers)  
Connecting the Router via Ethernet is the preferred option. However if you decide to connect via the USB port, you must install the USB drivers for this Router. The drivers are found on the enclosed CDROM. Please refer to *Chapter 2: Installation* on the *User's Manual* for step-by-step instructions.

## 3 **Connect the ADSL Router**

- ⊗ Connect the 12V 1A DC power adapter to the PWR jack of the Router, and plug the adapter into a mains power outlet. Switch on the Router.
- ⊗ Connect the DSL port of the Router to your ADSL jackpoint (telephone wall socket) with the enclosed phone line cord. **Never connect the ADSL Router through a Microfilter.**
- ⊗ Connect any of the LAN ports (LAN1 to LAN4) of the router to the Ethernet port of your computer using the cable supplied. Up to four computers can be connected this way. If you have more computers or wish to connect to an existing LAN connect one of the LAN ports of the router to your network hub.
- ⊗ If you choose to connect via the USB port, do not use the ethernet cable. Connect the USB port of the router to the USB port of your computer (or a USB hub) using the USB cable provided.
- ⊗ After connecting the cable (LAN or USB), the corresponding light on the front panel will turn on. If not it indicates a problem with the Ethernet or USB connection.

## 4 **Configure your computer**

For a step-by-step guide refer to *Chapter 4 - Configuration* in the *User's Manual*. The description below assumes you are connecting via an Ethernet port.

By default the DHCP server on your ADSL Router is enabled. The simplest configuration method is to follow option 1 below.

### **STEP 1 OBTAIN AN IP ADDRESS FROM THE ADSL ROUTER**

You do not need to specify an IP address when configuring TCP/IP properties. If your computer stands alone and is set up to obtain an IP address automatically, you can move on to *Section 5 – Going On-Line*.

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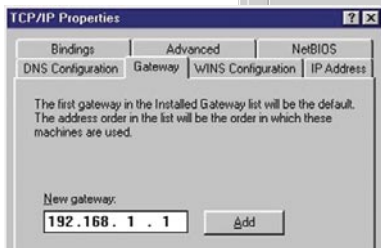
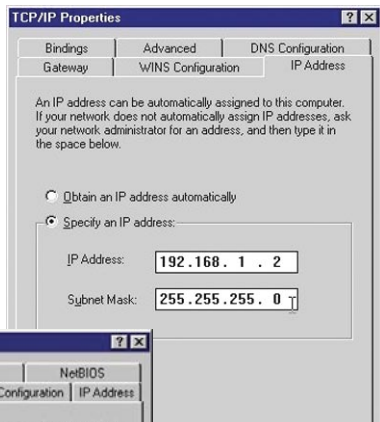
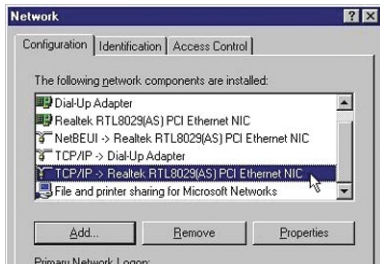
## STEP 2 MANUALLY ASSIGN A FIXED IP ADDRESS TO YOUR COMPUTER

If you prefer to assign an IP address manually, use **192.168.1.x** (x is any number between **2** and **254**) and subnet mask **255.255.255.0**. Specify the gateway as 192.168.1.1 and enter DNS server IP as **192.168.1.1**.

Windows specific instructions follow:

### Windows 95/98/ME:

- From **Control Panel**, double click **Network**. Scroll down and highlight **TCP/IP** (your network card). Click **Properties**.
- Select the **IP Address** tab. Enter **192.168.1.x** (x is any number between **2** and **254**). This is the IP address assigned to your computer. **Subnet Mask** is **255.255.255.0**.
- Select the **Gateway** tab. Enter the Router's IP address **192.168.1.1** and click **Add**.
- Click **OK** & then **OK** to finish. You may be prompted for the Windows CD and then be asked to restart. Answer **Yes** to restart the computer.

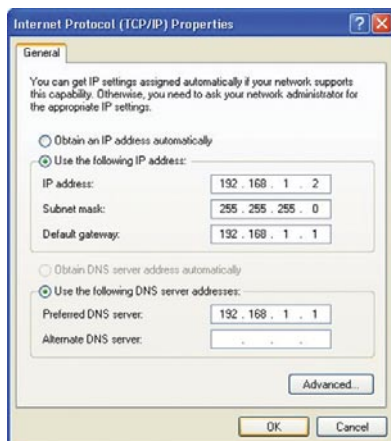


### For Windows 2000/XP:

- From Control Panel double click **Network Connections**. Open Local Area Connections and click **Properties**. Double click **Internet Protocol (TCP/IP)**. Select **Use the following IP address**.

- Enter **192.168.1.x** (x is any number between **2** and **254**). This is the IP address assigned to your computer. **Subnet Mask** is **255.255.255.0**.
- Enter the Router's IP **192.168.1.1** as the **Default gateway**, and **Preferred DNS server**.
- Click **OK** to finish.

**You have now finished configuring your computer.**



# 5 Going On-line


*This requires only 3 simple steps.*

## STEP 1 GO TO THE ROUTER'S QUICK START PAGE

Start your web browser. Enter the address **http://192.168.1.1**. Enter user name and password if required to proceed. By default, the username is **admin** and the password is **admin**.

You will see the Quick Start page of the Router.

Refer to Q1 in *Section 10 - Troubleshooting* if you cannot get this screen.



## ADSL Router Control Panel

- Quick Start
- System
- Status
- Configuration

### [ Quick Start ]

**DSL Line status:**

Running Profiles: Refresh

VPI/VCI	Data Encap	NAT	Local WAN IP	On-Line Time	Action
0/100	PPPoA VC MUX	enabled	0.0.0.0	00:00:00:00	<a href="#">Connect</a>

Please select the pre-defined profile for your router: PPPoA Router

[Apply and Save](#)

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## STEP 2 ENTER INTERNET ACCOUNT DETAILS

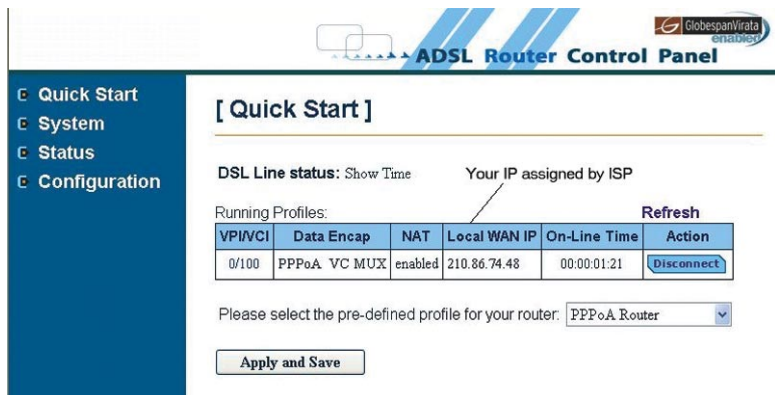
First check on the front panel of the Router that the DSL light has turned solid indicating the link is up. Click the **Connect** button. Do not click "Apply & Save" as this button is intended for changing the pre-defined profile.

Enter your Internet account User Name & Password. Click **Connect**.



The screenshot shows the 'ADSL Router Control Panel' with a sidebar on the left containing links: Quick Start, System, Status, and Configuration. The main content area is titled '[ Quick Start ] - 0/100 PPPoA VC MUX'. Below the title, it says 'PPP connection status:'. There are two input fields: 'User Name:' and 'Password:'. Below these fields is a 'Connect' button.

The Router will now connect to your ISP. At any time in the future if you wish to check that the Router is on-line, go to **Quick Start**. A screen similar to the following image confirms that you are on-line. It shows the public IP address assigned by your ISP, and the time the Router has been on-line. Click **Disconnect** only if you wish to interrupt the connection.



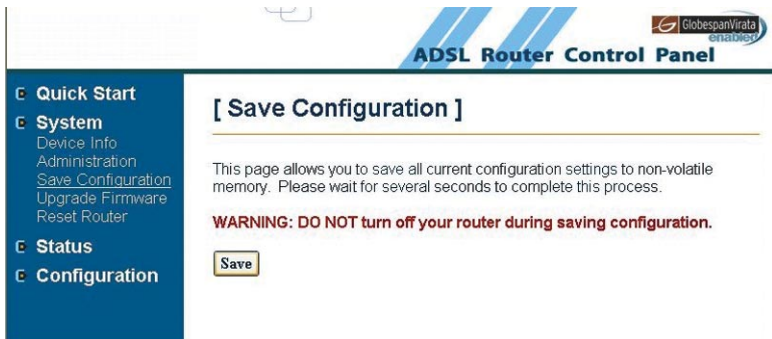
The screenshot shows the 'ADSL Router Control Panel' with the same sidebar. The main content area is titled '[ Quick Start ]'. It displays 'DSL Line status: Show Time' and 'Your IP assigned by ISP'. Below this is a table titled 'Running Profiles:'. The table has columns: VPI/VC, Data Encap, NAT, Local WAN IP, On-Line Time, and Action. The first row shows '0/100', 'PPPoA VC MUX', 'enabled', '210.86.74.48', '00:00:01:21', and a 'Disconnect' button. Above the table is a 'Refresh' button. Below the table is a dropdown menu labeled 'Please select the pre-defined profile for your router:' with 'PPPoA Router' selected. At the bottom is an 'Apply and Save' button.

VPI/VC	Data Encap	NAT	Local WAN IP	On-Line Time	Action
0/100	PPPoA VC MUX	enabled	210.86.74.48	00:00:01:21	Disconnect

If you cannot get online refer to Q2 in *Section 10 - Troubleshooting*.

### STEP 3 SAVING USERNAME & PASSWORD INFORMATION

- If you want to save your Internet account user name & password into the Router, go to **System - Save Configuration** in the Router menu. Enter the Router's administrative user name and password if required to proceed. By default, the Router administrative user name and password are both **admin**.
- Click **Save**. Wait for confirmation. From here the Router's basic configuration is completed.



**Note:** If you manually assigned a fixed IP address to your computer or you have another DHCP server already on your LAN, disable the DHCP server on your ADSL Router. Refer to LAN Configuration - DHCP server on Page 50 of the User's Manual.



## 6 Important tips for security

In order to benefit from the security features of this Router;

### Do:

- Change your Router's administrative user name & password
- Enable firewall security on the Router
- Back up your Router's configuration

### Don't:

- Enable remote access to the Router unless you know how to handle security
- Send your Router away for repair or replacement without resetting to factory default or wiping out your Internet account login details

To change the Router's administrative user name & password, go to **System – Administrative Security**. Select a user name and password you will not forget.

Firewall security - It is recommended that the firewall be enabled. There are four preset levels of security: Low, Medium, High & Block. At the "Block" level nothing passes through. Reducing the security level allows more types of traffic to pass through e.g. no ICQ traffic is allowed in or out at security level Medium, however the Router will allow outgoing ICQ traffic at security level Low.

enable the firewall, go to **Configuration – Security – Firewall**. Select the level of security you require. Click Apply, and save configuration using the **System – Save Configuration** menu.

Advanced users may want to customise the default firewall policies to meet their particular needs. Please refer to page 61 of the *User's Manual*.

Firewall Policies - Microsoft Internet Explorer provided by PC ...

The default policies for various security levels are applied as below.  
Other application services which are not listed here are blocked if the firewall is enabled.

Security Level		Low		Medium		High	
Service	Port	In	Out	In	Out	In	Out
HTTP(tcp)	80	No	Yes	No	Yes	No	Yes
DNS(udp)	53	No	Yes	No	Yes	No	Yes
FTP(tcp)	21	No	Yes	No	Yes	No	Yes
Telnet(tcp)	23	No	Yes	No	Yes	No	Yes
ICMP	0	Yes	Yes	Yes	Yes	No	Yes
HTTP-SSL(tcp)	443	No	Yes	No	Yes	No	Yes
News-nntp(tcp)	119	No	Yes	No	Yes	No	No
SMTP(tcp)	25	No	Yes	No	Yes	No	No
POP3(tcp)	110	No	Yes	No	Yes	No	No
RealAudio/Video(tcp)	554	No	Yes	No	No	No	No
RealAudio/Video(tcp)	7070-7071	No	Yes	No	No	No	No
RealAudio/Video(udp)	6770-7170	Yes	No	No	No	No	No
MS Media Player(tcp/udp)	1755	No	Yes	No	No	No	No
H.323(tcp)	1720	No	Yes	No	No	No	No
T.120(tcp)	1503	No	Yes	No	No	No	No
MSN Messenger(tcp)	1863	No	Yes	No	No	No	No
ICQ(tcp)	5190	No	Yes	No	No	No	No
ICQ Chat(tcp)	7152	No	Yes	No	No	No	No

(Yes: allow; No: block)

## 7 Backup the Router configuration

It is desirable to keep copies of your configuration on disk. The Router can read from a saved configuration file and restore your customised configuration after events such as a reset to factory defaults.

To backup or restore your Router's configuration, go to **System - Quick Configuration**.

## 8 Guide to the Users Manual

Refer to these page numbers of the Users Manual on the enclosed CD for:

### USB DRIVER INSTALLATION

Windows 98	4	Windows ME	6
Windows 2000	8	Windows XP	10

### CONFIGURATION

#### *Setting up TCP/IP on a client PC*

Windows 98	25	Windows ME	34
Windows NT	29	Windows 2000	32
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#### *Configuring a PC to get an IP address from a DHCP server*

Windows 98	36	Windows ME	37
Windows NT	37	Windows 2000	37
Windows XP	38		

### WEB-BASED ROUTER CONFIGURATION MENU

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Upgrade Software	47	Reset Router	48
<i>Status</i>			
DSL Connection	48	WAN Connection	49
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DHCP Table	50		
<i>Configuration</i>			
DSL Configuration	51	LAN Configuration	51
WAN Configuration	56	IP Route	58
DNS	59	Security	61
Virtual Server	65	UPnP	67

## 9 *Indicator lights*

There are five indicators on the Router's front panel. Every time the Router is powered on or reset, all the lights will come on indicating the self-test is in progress.

Indicator	Function	Description
PWR	Power	Off - No power. On - Power is on.
DIAG	Diagnosis	Off - Self-test OK. Blinking – System updating. On - Self-test or system failure.
LAN1 - LAN4	Ethernet Link	Off - Ethernet link not present. Blinking – Data going through Ethernet port. On - Ethernet link is ok.
USB	USB Link	Off - USB link not present. Blinking - Data going through USB port. On - USB link is ok.
DSL	Link Status	Off - Handshaking/training in progress. Blinking - Data going through ADSL port. On - ADSL link is up.

# 10 Troubleshooting

## **Q1. Cannot open the Router control panel from my browser.**

1. Check that the Router's LAN (or USB) light is on. If not, check your Ethernet (or USB) cable. If you connect via Ethernet, check that the Ethernet cable we supplied is plugged directly into a stand-alone computer OR the uplink port of network hub. Should the cable be plugged into any other port on a hub, a crossover (or uplink) cable must be used. A crossover cable is not provided with the Router.
2. If you assign IP addresses manually, check that every IP on the LAN is unique. The Router's private IP is 192.168.1.1 by default. You must use this address, or the address you have changed it to, in order to access the Router's control panel.

If your computer obtains an IP address from the Router, follow this procedure to make sure your computer's IP address is renewed:

### **Windows 95/98/ME:**

1. Go to **Start - Run**. Type **winipcfg** in the dialog box and click **OK**.
2. When the IP configuration screen appears, click **Release** and then **Renew**.

### **Windows NT4/2000/XP:**

1. Go to **Start - Run**. Type **cmd** in the dialog box and click **OK**.
  2. At the command prompt type **ipconfig** to display IP information from DHCP server.
  3. Type **ipconfig /release** and then type **ipconfig /renew**.
3. Perform a **PING test**. Go to **Start–Programs–MS DOS** or **Command Prompt** (In WinXP/2000/NT4 click **Start-Run**. Enter **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=4ms TTL=30  
...
```

If you see a similar response, the Router is communicating with the network correctly and the problem lies elsewhere. If the result is **Request timed out** or a similar failure, there is a TCP/IP networking problem. Check the LAN cable type is correct (as in step 1 above) and firmly plugged in. To check a computer's network settings see *Step 2 (Section 4 – Configure your computer)*.

4. Disable any personal firewall or virus checking software temporarily. If you are using Internet Explorer, go to **Tools–Internet options–Security**. Reset the security level of all 4 icons to **default**. You can revert to your customised settings after configuring the Router.

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5. If previously you were using a dialup modem, check the browser configuration. For example in Internet Explorer, go to **Tools–Internet options–Connections**, and select **Never dial a connection**. Also check **LAN Settings** that the option **Use a Proxy Server** is not selected.
6. If the Router is connected to a network hub, try connecting the Router directly to the computer in a standalone setup to eliminate any possible hub problems.
7. If the LAN already has a DHCP server enabled, disable it. Refer to the second paragraph of *Section 4 – Configure your computer in the User's Manual*.

## **Q2. Cannot connect to the Internet or cannot browse.**

1. Check that Router's DSL light is on. Normally it takes less than one minute to establish an ADSL link. A link will establish as long as there is sufficient signal. If the DSL light does not come on the Router is not detecting any signal. Check that:
  - The ADSL service has been enabled
  - The Router is connected to the correct jackpoint
  - The Router is connected directly to a jackpoint, not after a filter or other device.
2. Check that Router is on line. Bring up the Quick Start menu of the ADSL Router Control Panel. Refer to *Step 2 – Enter Internet account details of Section 5 - Going On-Line*. If **NAT IP** shows **o.o.o.o**, you are not on line. Make sure the correct user name and password are entered. The username and password are provided by your ISP.
3. Check the configuration of your computer and Router. If you still cannot browse, perform a PING test as described in Q1-3, using these addresses:

(A) Ping **www.dynalink.co.nz** (or any valid web address)

(B) Ping **205.178.180.16** (or any valid public IP address)

If both (A) & (B) returned no reply, go to Quick Start and check that **NAT** is enabled. Also make sure the Router's firewall is not set to Block. If these settings are correct, ping the computer's IP address (e.g. **ping 192.168.1.2**). If there is still no reply your network card may be faulty.

If (A) returned no reply but (B) showed a reply, this is probably a DNS problem. Check that you have entered the correct DNS address if this is required by your ISP.

If both (A) & (B) showed a reply, it could be a problem with your browser settings. Try returning any custom settings of the browser to default. If you have personal firewall software running, disable it. Check if the condition in Q1-5 applies. Finally shut down the computer and restart it.

***Q3. Browsing is fine but I cannot run certain applications, such as ICQ.***

Check that your firewall security setting is not too high. Try temporarily disabling the firewall. If the application now runs, you can either lower the security level setting, or tailor your firewall settings to allow traffic of the application through.

***Q4. My customised Router administrative password has been forgotten and the Router control panel is no longer accessible.***

Restore the Router to factory defaults. A hidden reset button is located next to the power on/off button at the back. Using a suitable size pin, while the Router is powered on press the reset button for several seconds and release. All the front panel lights should come on indicating a successful reset.

## Warranty



Dynalink Modems Ltd warrants this product against defects in materials and workmanship for a period of twelve months from the original date of purchase. We will, at our discretion, repair or replace the faulty unit, free of charge, provided it is returned to us with proof of purchase from an authorised dealer within the warranty period. Return delivery after repair will be paid for by Dynalink Modems Ltd within New Zealand. We reserve the right not to repair or replace goods that:

- ⊗ have been mishandled, abused or not installed according to the guidelines as outlined in the instructions.
- ⊗ have been subjected to a power surge from other equipment or other external factors.
- ⊗ have been altered or modified.

## Help



Always check that your hardware is installed correctly. Check our web site for the latest information and troubleshooting guide. If you have difficulties, contact Dynalink Technical Support for issues relating to router installation and operation:

**Phone:** 0800 653 962 (Mon-Fri, 8:30am-7:30pm)

**Fax:** 0800 503 962

**Email:** [support@dynalink.co.nz](mailto:support@dynalink.co.nz)

**Web:** [www.dynalink.co.nz](http://www.dynalink.co.nz)

