

Prestige 791R

G.SHDSL Router

Quick Start Guide

Version 3.40

May 2003



Introducing the Prestige

The Prestige 791R Router can be used for high-speed LAN-to-LAN connections or Internet access through a G.SHDSL connection over the telephone line. You can use your Prestige for either IP routing or bridging depending on your ISP (Internet Service Provider) configuration.

You should have an Internet account already set up and have been given most of the following information.

INTERNET ACCOUNT INFORMATION	
Your device's WAN IP Address (if given): _____	
DNS Server IP Address (if given): Primary _____, Secondary _____	
Virtual Path Identifier (VPI): _____	
Virtual Channel Identifier (VCI): _____	
Multiplexing (VC-based or LLC-based): <input type="checkbox"/> VC <input type="checkbox"/> LLC	
Encapsulation:	
Transfer Rate:	
Standard Mode:	
<input type="radio"/> RFC 1483	
<input type="radio"/> ENET ENCAP	Ethernet Encapsulation Gateway IP Address: _____
<input type="radio"/> PPPoA	User Name: _____ Password: _____
<input type="radio"/> PPPoE	Service Name: _____ User Name: _____ Password: _____

Quick Start Overview

- 1** Hardware Installation 3
- 2** Setting Up Your Computer's IP Address 5
- 3** Configuring Your Prestige 6

1 Hardware Installation

Rear Panel



LABEL	DESCRIPTION
POWER	Connect to a power source using the power adapter for your region (see your <i>User's Guide</i>).
RESET	You only need to use this button if you've forgotten the Prestige's password. It returns the Prestige to the factory defaults (password is 1234, LAN IP address 192.168.1.1, terminal emulation settings as described above etc.; see your <i>User's Guide</i> for details).
LAN 10M/100M	Connect to a computer/external hub using an Ethernet cable. The LAN port is auto-sensing which means either a crossover or straight-through Ethernet cable will do in either case.

Prestige 791R

LABEL	DESCRIPTION
CON/AUX switch CON/AUX port	<p>Only connect this port if you want to configure the Prestige using the SMT via console port or set up a backup WAN connection; see your <i>User's Guide</i> for details.</p> <p>Set this switch to the "CON" side to use the CON/AUX port as a console port for local device configuration and management. Connect the 9-pin male end of the console cable to the console port of the Prestige and the other end to a serial port (COM1, COM2 or other COM port) on your computer. Your computer should have a terminal emulation communications program (such as HyperTerminal) set to VT100 terminal emulation, no parity, 8 data bits, 1 stop bit, no flow control and 9600 bps port speed.</p> <p>Set this switch to the "AUX" side to use the CON/AUX port as an auxiliary dial-up WAN connection. Connect the 9-pin male end of the RS-232 Y-cable to the CON/AUX port and use the included CON/AUX converter on the other 9-pin end of the cable to connect to a modem or TA.</p>
DSL	Connect to a telephone jack using the included RJ-11 cable.

The Front Panel LEDs

Turn on the Prestige by pressing the **ON/OFF** button.

The **PWR** LED turns on when you connect the power. The **SYS** LED blinks while performing system testing and then stays on if the testing is successful. The **LAN**, **CON/AUX**, **DSL**, and **PPP/ACT** LEDs turn on if they are properly connected. Refer to the *User's Guide* for more detailed LED descriptions.



2 Setting Up Your Computer's IP Address

Skip this section if your computer is already set up to accept a dynamic IP address. This is the default for most new computers.

The Prestige is already set up to assign your computer an IP address. Use this section to set up your computer to receive an IP address or assign it a static IP address in the 192.168.1.2 to 192.168.1.254 range with a subnet mask of 255.255.255.0. This is necessary to ensure that your computer can communicate with your Prestige.

Your computer must have an Ethernet card and TCP/IP installed. TCP/IP should already be installed on computers using Windows NT/2000/XP, Macintosh OS 7 and later operating systems.

Windows 2000/NT/XP

1. In Windows XP, click **start, Control Panel**. In Windows 2000/NT, click **Start, Settings, Control Panel**.
2. In Windows XP, click **Network Connections**.
In Windows 2000/NT, click **Network and Dial-up Connections**.
3. Right-click **Local Area Connection** and then click **Properties**.
4. Select **Internet Protocol (TCP/IP)** (under the **General** tab in Win XP) and click **Properties**.
5. The **Internet Protocol TCP/IP Properties** screen opens (the **General** tab in Windows XP).

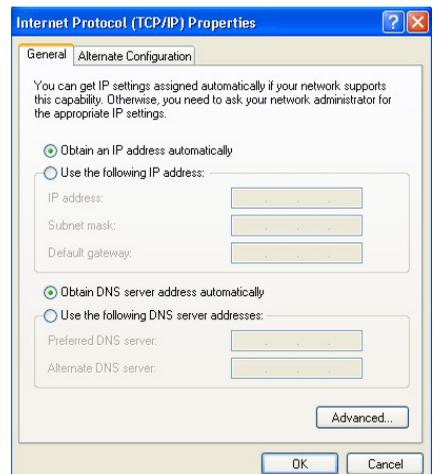
- To have your computer assigned a dynamic IP address, click **Obtain an IP address automatically**.

If you know your DNS sever IP address(es), type them in the **Preferred DNS server** and/or **Alternate DNS server** fields.

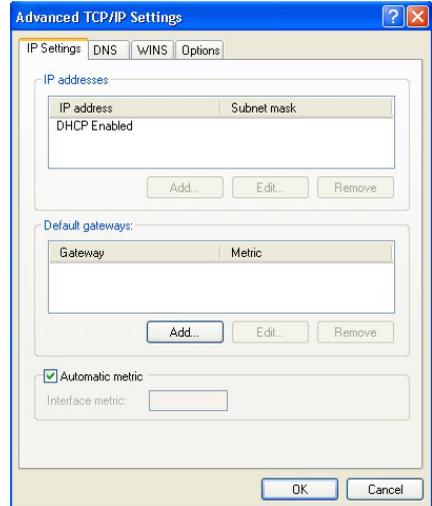
-To configure a static IP address, click **Use the following IP Address** and fill in the **IP address** (choose one from 192.168.1.2 to 192.168.1.254), **Subnet mask** (255.255.255.0), and **Default gateway** (192.168.1.1) fields.

Then enter your DNS server IP address(es) in the **Preferred DNS server** and/or **Alternate DNS server** fields.

If you have more than two DNS servers, click **Advanced**, the **DNS** tab and then configure them using **Add**.



6. Click **Advanced**. Remove any previously installed gateways in the **IP Settings** tab and click **OK** to go back to the **Internet Protocol TCP/IP Properties** screen.



7. Click **OK** to close the **Internet Protocol (TCP/IP) Properties** window.
8. Click **OK** to close the **Local Area Connection Properties** window.

Checking/Updating Your Computer's IP Address

1. In the computer, click **Start, (All) Programs, Accessories** and then **Command Prompt**.
2. In the **Command Prompt** window, type "ipconfig" and then press **ENTER** to verify that your computer's IP address is in the correct range (192.168.1.2 to 192.168.1.254) with subnet mask 255.255.255.0. This is necessary in order to communicate with the Prestige.

Refer to your *User's Guide* for detailed IP address configuration for other Windows and Macintosh computer operating systems.

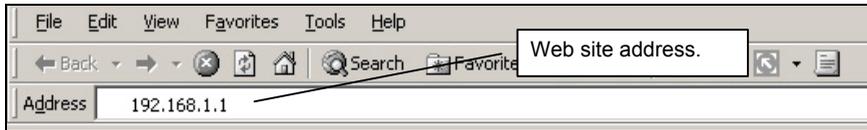
3 Configuring Your Prestige

Choose one of these methods to access and configure the Prestige. This *Quick Start Guide* shows you how to use the web configurator wizard only. See your *User's Guide* for background information on all Prestige features and SMT configuration. Click the web configurator online help for screen-specific web help.

- Web Configurator
- SMT (System Management Terminal). Access the SMT via:
 - o Console port using terminal emulation software
 - o LAN or WAN using Telnet

Accessing Your Prestige Via Web Configurator

Step 1. Launch your web browser. Enter “192.168.1.1” as the web site address.

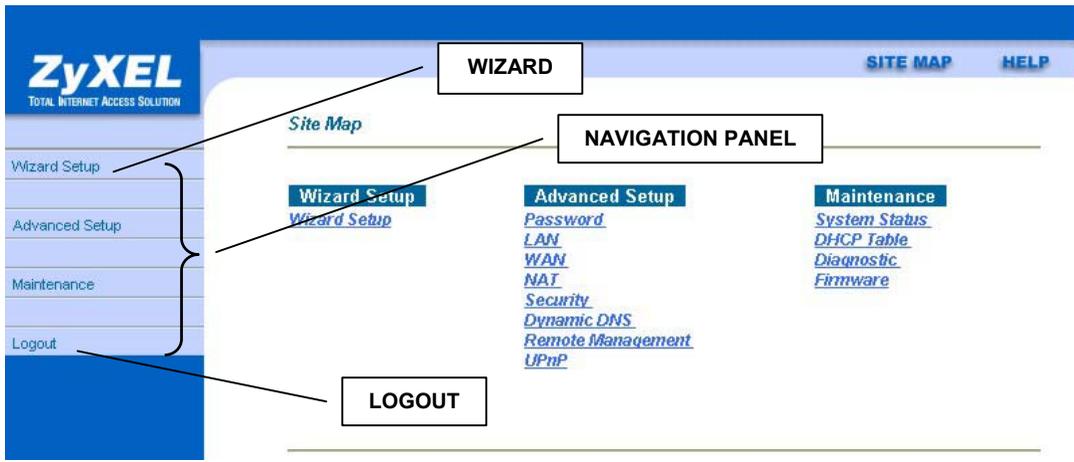


Step 2. The default password (“1234”) is already in the password field (in non-readable format). Click **Login** to proceed to a screen asking you to change your password. Click **Reset** to revert to the default password in the password field.



Step 3. You should now see the web configurator **Site Map** screen.

- Click **Wizard Setup** to begin a series of screens to configure your Prestige for the first time.
- Click a link under **Advanced Setup** to configure advanced Prestige features.
- Click a link under **Maintenance** to see Prestige performance statistics, upload firmware and back up, restore or upload a configuration file.
- Click **Logout** in the navigation panel when you have finished a Prestige management session.



The Prestige automatically logs you out if it is left idle for five minutes; press ENTER to log back in again.

Internet Access Using the Wizard

Use the Wizard Setup screens to configure your system for Internet access settings and fill in the fields with the information in the *Internet Account Information* table. Your ISP may have already configured some of the fields in the wizard screens for you.

Step 1. In the **Site Map** screen click **Wizard Setup** to display the first wizard screen.

Wizard Setup - WAN Setup

Service Type Client Server

Transfer Rate

Rate Adaption Enable Disable

Max Rate Kbps

Min Rate kbps

Standard Mode ANSI (ANNEX_A) ETSI (ANNEX_B)

If your Prestige is a server, then select the mode that applies to your region: **ANSI** (American National Standards Institute) and **ETSI** (European Telecommunications Standards Institute). If your Prestige is a client, select the same **Standard Mode** that the server side selects.

Select **Client** if your Prestige will act as a client device or **Server** if your Prestige will act as a server.

If you enable **Rate Adaption**, the Prestige will connect at the optimal transfer rate between the min and max rates below. If you disable **Rate Adaption**, it will attempt to connect at the maximum transfer rate configured. If that rate can't be attained, the connection will not be established. Next, select transfer rates from the **Max Rate** and **Min Rate** drop-down list boxes. For back-to-back applications make sure that your Prestige and its peer have the same **Transfer Max Rate** and the same **Transfer Min Rate**.

Step 2. Click **Next** to go to the second Wizard screen.

Wizard Setup - ISP Parameters for Internet Access

Mode

Encapsulation

Multiplex

Virtual Circuit ID

VPI

VCI

From the **Mode** drop-down list box, select **Routing** or **Bridge** based on the information from you ISP.

Select the encapsulation type your ISP uses from the **Encapsulation** drop-down list box. The choices are **PPPoA**, **RFC1483**, **PPPoE** and **ENET ENCAP**. **PPPoE** and **ENET ENCAP** are available only when you select **Routing** in the **Mode** field.

Select the multiplexing method used by your ISP from the **Multiplex** drop-down list box. The choices are **LLC** and **VC**.

Enter the correct Virtual Path Identifier (VPI) and Virtual Channel Identifier (VCI) numbers supplied by your ISP in the **VPI** and **VCI** fields. These fields may already be configured.

Click **Next** to go to the third Wizard screen or click **Back** to go to the first Wizard screen.

Step 3. The third wizard screen varies depending on what mode and encapsulation type you use. All screens shown are with routing mode. Configure the fields and click **Next** to continue or **Back** to go to the previous screen. See the first screen below, **Internet Connection with PPPoA**, for explanations of the following fields: **User Name**, **Password**, **IP Address**, **Connection**, and **Network Address Translation**.

Wizard Setup - ISP Parameters for Internet Access

User Name

Password

IP Address

Obtain an IP Address Automatically

Static IP Address

Connection

Connect on Demand: Max Idle Timeout Secs

Nailed-Up Connection

Network Address Translation

Enter the user name and password *exactly* as your ISP assigned them.

Select **Obtain an IP Address Automatically** if you have a dynamic IP address; otherwise select **Static IP Address** and type your ISP assigned IP address in the text box below.

Select **Connect on Demand** when you don't want the connection up all the time and specify an idle time-out (in seconds) in the **Max. Idle Timeout** field. Select **Nailed-Up Connection** when you want your connection up all the time.

Choose the type of Network Address Translation (NAT) you need. Select **Full Feature** if you have multiple public WAN IP addresses for your Prestige. Select **SUA Only** if you have just one public WAN IP address for your Prestige. Select **None** to disable NAT.

Internet Connection with PPPoA

IP Address and NAT will not be shown for PPPoA when the Prestige is in bridge mode.

Wizard Setup - ISP Parameters for Internet Access

Service Name

User Name

Password

IP Address

Obtain an IP Address Automatically

Static IP Address

Connection

Connect on Demand: Max Idle Timeout Secs

Nailed-Up Connection

Network Address Translation

▾

If your ISP provides the name of your PPPoE service provider, enter it in the **Service Name** field.

See *Internet Connection with PPPoA* for information on the remaining fields.

Internet Connection with PPPoE

Wizard Setup - ISP Parameters for Internet Access

IP Address

Obtain an IP Address Automatically

Static IP Address

IP Address

Subnet Mask

ENET ENCAP Gateway

Network Address Translation

▾

Enter a subnet mask in dotted decimal notation in the **Subnet Mask** field.

In the **ENET ENCAP Gateway** field, enter the gateway IP address given by your ISP.

See *Internet Connection with PPPoA* for information on the remaining fields.

Internet Connection with ENET ENCAP

Wizard Setup - ISP Parameters for Internet Access

IP Address

Network Address Translation

Type your ISP-assigned static IP address in the **IP Address** field.

See *Internet Connection with PPPoA* for information on Network Address Translation.

This screen will not be shown when the Prestige is in bridge mode. Instead the summary screen will be shown.

Internet Connection with RFC1483

- Step 4.** Verify the settings in the screen shown next. To change the LAN information on the Prestige, click **Change LAN Configuration**. Otherwise click **Save Settings** to save the configuration and skip to step 5.

Wizard Setup - ISP Parameters for Internet Access

WAN Information:
Mode: **Routing**
Encapsulation: **RFC 1483**
Multiplexing: **LLC**
VPI/VCI: **8/35**
IP Address : **0.0.0.0**
Network Address Translation: **SUA Only**

LAN Information:
IP Address: **192.168.1.1**
IP Mask: **255.255.255.0**
DHCP: **ON**
Client IP Pool Starting Address: **192.168.1.33**
Size of Client IP Pool: **32**

- Step 5.** If you want to change your Prestige LAN settings, click **Change LAN Configuration** to display the screen as shown next.

Prestige 791R

Wizard Setup - ISP Parameters for Internet Access

LAN IP Address

LAN Subnet Mask

DHCP

DHCP Server

Client IP Pool Starting Address

Size of Client IP Pool

Primary DNS Server

Secondary DNS Server

LAN Configuration

Specify the first of the contiguous addresses in the IP address pool in the **Client IP Pool Starting Address** field. Specify the size or count of the IP address pool in the **Size of Client IP Pool** field. Enter the IP address(es) of the DNS server(s) in the **Primary DNS Server** and/or **Secondary DNS Server** fields.

Step 6. The Prestige automatically tests the connection to the computer(s) connected to the LAN ports. To test the WAN connection from the Prestige to the ISP, click **Start Diagnose**. Otherwise click **Return to Main Menu** to go back to the **Site Map** screen.

Wizard Setup - ISP Parameters for Internet Access

Your DSL Gateway is now configured. Your device is capable of testing your DSL service. The individual tests are listed below. Click "Start Diagnose" button if you want to test; otherwise, click "Skip diagnose" button.

LAN connections	
Test your Ethernet Connection	PASS
WAN connections	
Test DSL synchronization	N/A
Test DSL(ATM OAM) loopback test	N/A

Enter the LAN IP address of your Prestige in dotted decimal notation in the **LAN IP Address** field. For example, 192.168.1.1 (factory default).

If you change the Prestige's LAN IP address, you must use the new IP address if you want to access the web configurator again.

Enter a subnet mask in dotted decimal notation in the **LAN Subnet Mask** field.

From the **DHCP Server** drop-down list box, select **On** to allow your Prestige to assign IP addresses, an IP default gateway and DNS servers to computer systems that support the DHCP client. Select **Off** to disable DHCP server.

When DHCP server is used, set the following items:

Troubleshooting

PROBLEM	CORRECTIVE ACTION
None of the LEDs turn on when you turn on the Prestige.	Make sure that you have the correct power adapter connected to the Prestige and plugged in to an appropriate power source. Check all cable connections. If the LEDs still do not turn on, you may have a hardware problem. In this case, you should contact your local vendor.
Cannot access the Prestige from the LAN.	Check the cable connection between the Prestige and your computer or hub. Ping the Prestige from a LAN computer. Make sure your computer Ethernet adapter is installed and functioning properly.
Cannot ping any computer on the LAN.	If the LAN LEDs are all off, check the cable connections between the Prestige and your LAN computers. Verify that the IP address, subnet mask of the Prestige and the LAN computers are in the same IP address range.
Cannot access the Internet.	Verify the Internet connection settings in the WAN screen. Make sure you entered the correct user name and password.