



BRL-04UR

4Port Ethernet Broadband Router

PLANEX COMMUNICATIONS INC.

USER'S MANUAL

4Port Ethernet Broadband Router

BRL-04UR

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Chapter **1** Introduction

Thank you for purchasing the BRL-04UR Broadband Router with USB Print Server. The BRL-04UR is an Ethernet Broadband Router with a built-in 4-port switch. It also features a USB port to share a USB printer on the home or office network and includes a print server application for Windows. As many as four computers can be connected directly to the router's integrated switch, using its four 10/100Mbps AutoMDIX Ethernet ports. More computers can be added to the network by connecting additional switches to the BRL-04UR. The BRL-04UR package even includes an Ethernet cable to get you started.

The BRL-04UR is ideal if you are creating your first home or small business network, or if you are a more advanced user looking for additional management settings.

The BRL-04UR includes a new, easy-to-use PCI web-based graphical user interface (GUI) to configure the router. To prevent unwanted Internet intruders from accessing your private network, the BRL-04UR also serves as a feature-rich firewall.

So, whether you are a college student who wants to network with friends and roommates, an executive working at home or in a small office, or a concerned parent who just wants to have more control over how your children access the Internet, then the Planex BRL-04UR Broadband Router with USB Print Server is the networking solution for you.

Chapter 2 Features & Benefits

Firewall Features

- **Filtering** - Easily applied filtering based on Media Access Control (MAC) Addresses, IP Addresses, Port Addresses, and time schedule allows or denies computer on the network access to the Internet.
- **Network Address Translation** - NAT allows your private network to share a single public IP address. All your computers connected to the BRL-04UR will be on a private network shielded from Internet intruders.
- **Built-In 4Port Switch** - Allows you to quickly and easily share an Internet connection with multiple computers and devices. Each 10/100 Ethernet Port automatically senses and accepts the type of Category (CAT) 5 cable you attach - whether straight through or cross-over. Connect additional switches to allow more computers to access the Internet.
- **Built-In Print Server** - Includes a USB port to connect to a USB printer and includes a Windows-based print server software application, so users on the network can share the printer. The print server is also capable of TCP/IP printing.
- **Ethernet Cable Included** - One Ethernet cable is included with the DI704UP to get you started.
- **Simple Setup Wizard for Easy Installation** - The Planex setup wizard simplifies the installation process, getting you up and running in just a few clicks.

2.1 Introduction to Broadband Router Technology

A router is a device that forwards data packets from a source to a destination. Routers can work on Open System Interconnection (OSI) layer 3, which forwards data packets using an IP address and not a MAC address. A router will forward data from the Internet to a particular computer on your LAN.

The information that makes up the Internet gets moved around using routers. When you click on a link on a web page, you send a request to a server to show you the next page. The request sent and the information received by your computer is moved from your computer to the server using routers. A router also determines the best route that your information should follow to ensure that the information is delivered properly.

A router controls the amount of data that is sent through your network by eliminating information that should not be there. This provides security for the computers behind your router because computers from the outside cannot access or send information directly to any computer on your network. The router determines which computer the information should be forwarded to and sends it. If the information is not intended for any computer on your network, the data is discarded. This keeps any unwanted or harmful information from accessing or damaging your network.

2.2 Introduction to Firewalls

A firewall is a device that sits between your computer and the Internet that prevents unauthorized access to or from your network. A firewall can be a computer using firewall software or a special piece of hardware built specifically to act as a firewall. In most circumstances, a firewall is used to prevent unauthorized Internet users from accessing private networks such as corporate LANs and Intranets.

A firewall watches all of the information moving to and from your network and analyzes each piece of data. Each piece of data is checked against a set of criteria that the administrator configures. If any data does not meet the criteria, that data is blocked and discarded. If the data meets the criteria, the data is passed through. This method is called packet filtering.

A firewall can also run specific security functions based on the type of application or type of port that is being used. For example, a firewall can be configured to work with an FTP or Telnet server. Or a firewall can be configured to work with specific UDP or TCP ports to allow certain applications or games to work properly over the Internet.

A Local Area Network (LAN) is typically an Ethernet-based network that connects several computers together over a small area such as a building or group of buildings. LAN's can also be connected over large areas. A collection of LANs connected over a large area is called a Wide Area Network (WAN).

There are many types of media that can connect computers together. The most common media is CAT5 cable; UTP or STP twisted pair wire. Each computer must have a Network Interface Card (NIC), which transfers the data between computers. A NIC is usually a 10/100Mbps Fast Ethernet adapter.

Most networks use hardware devices such as hubs or switches to transfer data between computers. A hub receives data arriving through each port and forwards the data to all other ports. A switch is more sophisticated, in that a switch can determine the port (or corresponding computer) that each packet of data is supposed to be delivered to. A switch minimizes network traffic and speeds up communication over a network.

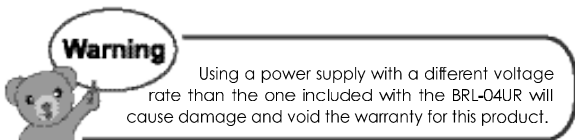
There are many types of scenarios to consider which could affect the operability of a network. Some of these issues are discussed in the manual under the Networking Basics section.

2.3 Package Contents

■ Contents of Package

- BRL-04UR
- CD-ROM(User's Manual)
- Quick Installation Guide
- AC Adapter
- UTP Cable
- Warranty Card

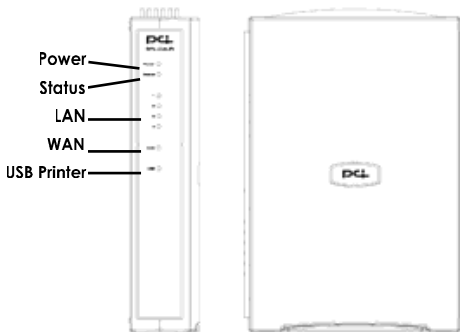
If any of the above items are missing, please contact your reseller.



■ System Requirements for Configuration

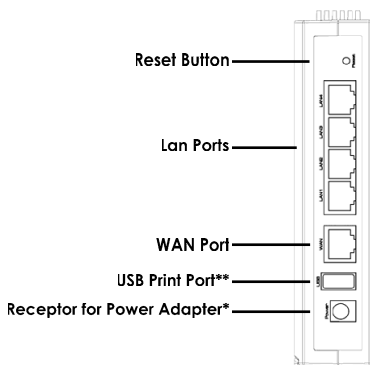
- Computer with Windows, Macintosh, or Linux-based Operating System with an installed Ethernet adapter.
- Internet Explorer version 6.x, Netscape Navigator version 6.x and above, or another Internet Browser application with JavaScript enabled.

2.4 LEDs



LEDs	Status	Indication
Power	On	A proper connection to the power supply.
Status	On	Unit is not working properly*
	Blinking	Unit is working properly
LAN	On	A connection to an Ethernet-enable computer on ports 1-4.
	Blinking	Data transmission.
WAN	On	A connection on WAN port.
	Blinking	Data transmission.
USB Printer	On	A proper connection to a printer.

2.5 Connections



Reset Button	Reset button is to reset the device to its factory default settings.
LAN Ports	LAN port is where you would connect each computer to your network.
WAN Port	WAN port is the connection point for your xDSL or Cable modem.
USB Print Port**	Connect to the printer using a USB cable. This feature is used to share the printer on the network.
Receptor for Power Adapter*	Connect the supplied power adapter that came with the unit. Using the wrong power adapter will damage the unit.

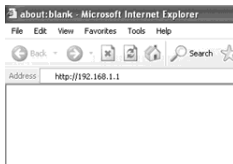
Warning



* Using a power supply with a different voltage rating than the one include with BRL-04UR will cause damage and void the warranty for this product.

** Do not plug anything other than a USB printer into USB Printer Port. Doing so may cause damage and void the warranty for this product.

2.6 Using the Setup Wizard



Open your browser and type **http://192.168.1.1** into the URL address box. Then press **Enter** or **Return** key.

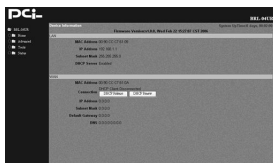


The login pop-up screen will appear.



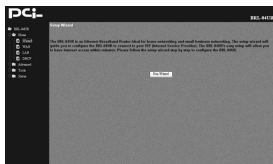
Type **admin** for the User Name and type 0000 for the Password fields. Then click **OK**.

You will see the following screens.



Once you have logged in, BRL-04UR home menu will appear.

● Home>Wizard



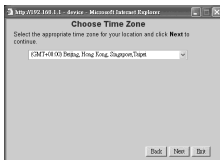
Click on **Run Wizard**



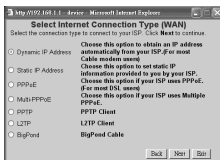
Click **Next** for next step.



Changing the Default Password. To change the default password for higher protection of Your router. Then click **Next**.



Set up your Time Zone. You have the option to the set standard time for your router. To change the default selection, select the drop down arrow and choose the correct time zone. Then click **Next**.



Select your Internet Connection. You will be prompted to select the type of internet connection for your router. Then click **Next**.



Caution: If you are unsure of which setting to select, please contact your Internet Service Provider. Select PPTP only if you use it in Europe, BigPond Cable in Australia, or L2TP for specific ISPs use.

If you selected **Dynamic IP Address**, this screen will appear: (Used mainly for Cable Internet service.) Then click **Next**.

If your ISP requires a **Static IP Address**, and this option is selected, then this screen will appear:

Enter the IP Address information originally provided to you by your ISP. You will need to complete all the listed fields.

Then click **Next**.

If your ISP uses **PPPoE** (Point-to-Point Protocol over Ethernet), and this option is selected, then this screen will appear: (Used mainly for DSL Internet service.)

Enter in the username and password provided to you by your ISP.

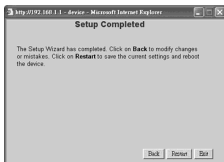


Note: Please be sure to remove any existing PPPoE client software installed on your computers.

Then click **Next**.



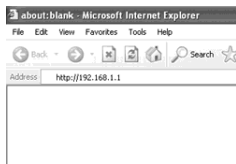
Click **Restart** to finish wizard setup.



2.7 Using the Configuration Menu

Whenever you want to configure your network or the BRL-04UR, you can access the Configuration Menu by opening the web browser and typing in the IP Address of the BRL-04UR. The BRL-04UR default IP Address is shown below:

Open the web browser. Type in the **IP Address** of the BRL-04UR. (Factory default is 192.168.1.1).

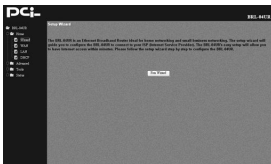


Note: If you have changed the default IP Address assigned to the BRL-04UR, make sure to enter the correct IP Address.

The factory default User name is **admin** and the default Password is **0000**. It is recommended that you change the admin password for security purposes. Please refer to Tools>Admin to change the admin password.

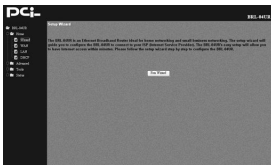


● Home > Wizard



The **Home>Wizard** screen will appear upon log in. Please refer to the **Quick Installation Guide** for more information regarding the Setup Wizard.

● Home > WAN



WAN is short for Wide Area Network. The WAN settings can be referred to as the Public settings. All IP information in the WAN settings are public IP addresses which are accessible on the Internet. The WAN settings consist of four options: **Dynamic IP Address, Static IP Address, PPPoE, and Others**. Select the appropriate option and fill in the information needed to connect to your ISP.

Choose **Dynamic IP Address** to obtain IP address information automatically from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for Cable modem services. **Host Name:** The Host Name field is optional but may be required by some ISPs. The host name is the device name of the Broadband Router.

- **Home > WAN**

- MAC Address**

- The default MAC address is set to the WAN's physical interface MAC address on the Broadband Router. You can use the **Clone MAC Address** button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with this MAC address. It is not recommended that you change the default MAC address unless required by your ISP.

- Primary/Secondary DNS Address**

- Enter a DNS Address if you do not wish to use the one provided by your ISP.

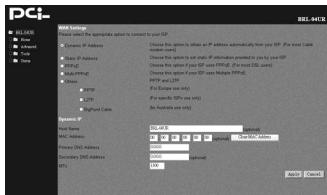
- MTU**

- Only enter the MTU if it is required by your ISP. Otherwise, leave it at the default setting of 1500.

- Auto-reconnect**

- If enabled, the Broadband Router will automatically connect to your ISP after your system is restarted or if the connection is dropped.

● Home > WAN > Static IP Address



Choose Static IP Address if all WAN IP information is provided to you by your ISP. You will need to enter in the IP Address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four IP octets separated by a dot (x.x.x.x). The Router will not accept the IP Address if it is not in this format.

IP Address

Public IP address provided by your ISP.

Subnet Mask

Subnet mask provided by your ISP.

ISP Gateway Address

Public IP address of your ISP that you are connecting to.

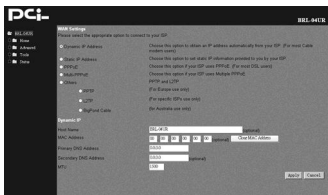
Primary/Secondary DNS Address

Enter a DNS Address if you do not wish to use the one provided by your ISP.

MTU

Enter an MTU value only if required by your ISP. Otherwise, leave it at the default setting of 1500.

● Home > WAN > PPPoE Home > WAN > PPPoE



Dynamic PPPoE

PPPoE connection where you will receive an IP address automatically from your ISP.

Static PPPoE

PPPoE connection where you have an assigned (static) IP address.

User Name

Your PPPoE username provided by your ISP.

Password

Your PPPoE password provided by your ISP.

Retype Password

Re-enter PPPoE password.

Service Name

Enter the service name provided by your ISP. (optional)

IP Address

This option is only available for Static PPPoE. Enter in the static IP address for the PPPoE connection.

Primary DNS Address

Primary DNS IP provided by your ISP.

Secondary DNS Address

Optional.

Maximum Idle time

The amount of time of inactivity before disconnecting your PPPoE session. Enter a Maximum Idle Time (in minutes) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the defined Maximum Idle Time, then the connection will be dropped. Either set this to zero or enable Auto-reconnect to disable this feature.

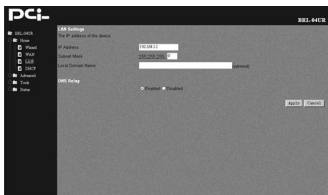
MTU

MTU stands for Maximum Transmission Unit. For PPPoE connections, you may need to change the MTU settings in order to work correctly with your ISP.

Auto-reconnect

If enabled, the Broadband Router will automatically connect to your ISP after your system is restarted or if the connection is dropped.

● Home > LAN



LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the BRL-04UR. These settings may be referred to as Private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

IP Address

The IP address of the LAN interface. The default IP address is 192.168.1.1.

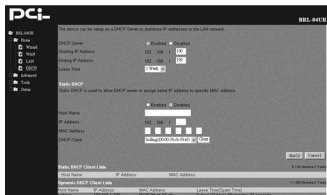
Subnet Mask

The subnet mask of the LAN interface. The default subnet mask is 255.255.255.0.

Local Domain Name

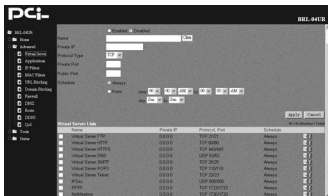
This field is optional. Enter in the your local domain name.

● Home > DHCP



DHCP stands for Dynamic Host Control Protocol. The BRL-04UR has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to **Obtain an IP Address Automatically**. When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the BRL-04UR. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

● Home > DHCP



Static DHCP allows computers on the LAN to receive the same DHCP IP address everytime it boots up. You can bind a specific IP address to a specific computer based on the computer's MAC address.

Starting IP address

The starting IP address for the DHCP server's IP assignment.

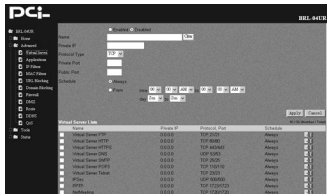
Ending IP address

The ending IP address for the DHCP server's IP assignment.

Lease Time

The length of time for the IP lease.

● Advanced > Virtual Server



The BRL-04UR can be configured as a virtual server so that remote users accessing Web or FTP services via the public IP address can be automatically redirected to local servers in the LAN (Local Area Network). The BRL-04UR firewall feature filters out unrecognized packets to protect your LAN network so all computers networked with the BRL-04UR are invisible to the outside world. If public access is desired, you can make some of the LAN computers accessible from the Internet by enabling Virtual Server. Depending on the requested service, the BRL-04UR redirects the external service request to the appropriate server within the LAN network.

● Advanced > Virtual Server

The BRL-04UR is also capable of port-redirection meaning incoming traffic to a particular port can be redirected to a different port on the server computer. Each of the virtual services that are created will be listed at the bottom of the screen in the Virtual Servers List. There are already pre-defined virtual services already in the table. You may use them by enabling them and assigning the server IP to use that particular virtual service.

Name

The name referencing the virtual service.

Private IP

The server computer in the LAN (Local Area Network) that will be providing the virtual services.

Private Port

The port number of the service used by the Private IP computer.

Protocol Type

The protocol used for the virtual service.

Public Port

The port number on the WAN side that will be used to access the virtual service.

Schedule

The schedule of time when the virtual service will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. If it is set to Time, select the time frame for the service to be enabled. If the system time is outside of the scheduled time, the service will be disabled.

For example : If you have a Web server that you wanted Internet users to access at all times, you would need to enable it. FTP (FTP) server is on LAN (Local Area Network) computer 192.168.1.100. HTTP uses port 21, TCP.

Name: Web Server Private IP: 192.168.1.100 Protocol Type: TCP Private Port: 21 Public Port: 21 Schedule: always

● Advanced > Virtual Server

Virtual Server List				192.168.1.100
Name	Private IP	Protocol	Schedule	
Virtual Server FTP	192.168.1.100	TCP-2121	Always	 

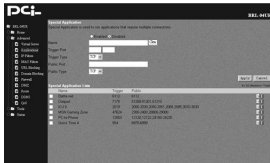


Click on this icon to edit the virtual service.



Click on this icon to delete the virtual service.

● Advanced > Application



Some applications require multiple connections, such as Internet gaming, video conferencing, and Internet telephony. These applications have difficulty working through NAT (Network Address Translation). **Special Applications** makes some of these applications work with the BRL-04UR. If you need to run applications that require multiple connections, specify the port normally associated with an application in the **Trigger Ports** field, then enter the public ports associated with the trigger port into the **Public Ports** field.

● Advanced > Application

At the bottom of the screen, there are defined special applications. To use them, select one from the drop down list and select an ID number you want to use. Then click the **Copy to** button and the router will fill in the appropriate information to the list. You will then need to enable the service. If the mechanism of Special Applications fails to make an application work, try using DMZ host instead.



Note: Only one PC can use each Special Application tunnel.

Enable / Disable

Select to activate the policy. To disable the virtual server feature, select disable.

Trigger Port

This is the port used to trigger the application. It can be either a single port or a range of ports.

Trigger Type

Select the trigger protocol you would like to initiate. To change the selection, use the drop down arrow and other choices will be listed.

Public Ports

Enter in the public port or ports to be used. A range of ports can be specified with a hyphen.

Public Type

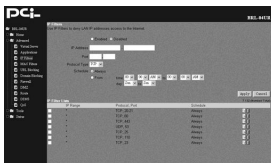
Enter in the protocol type for public ports to access. To change the selection, use the drop down arrow and other choices will be listed.

Special Application List

In the Special Application List, it will list some of the popular services with its trigger ports. This is the port number on the WAN side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.

● **Advanced > IP Filter**

Use IP (Internet Protocol) filters to allow or deny computers access to the Internet based on their IP address.



Enabled / Disabled

Click Enabled to apply the filter policy or click Disabled to enter an inactive filter policy (You can reactivate the policy later.)

IP Address

Enter in the IP address range of the computers that you want the policy to apply to. If it is only a single computer that you want the policy applied to, then enter the IP address of that computer in the Start Source IP and leave the End Source IP blank.

Port Ranges

Enter in the port range of the TCP/UDP ports that you want the policy to apply to. If it is only a single port that you want the policy applied to, then enter the port number in the Start Port field and leave the End Port field blank. If you want to use all the ports, you can leave the port range empty.

Protocol

Select the protocol type to block certain IP addresses.

Schedule

Select Always, or choose From and enter the time period during which the IP filter policy will be in effect.

● Advanced > MAC Filters



MAC (Media Access Control) Filters are used to allow or deny LAN (Local Area Network) computers from accessing the Internet and network by their MAC address.

At the bottom of the screen, there is a list of MAC addresses from the DHCP client computers connected to the BRL-04UR. To use them, select one from the drop down list and select an IP number you want to use. Then click the **Copy to** button and the BRL-04UR will fill in the appropriate information to the list.

Disabled MAC Filter

Select this option if you do not want to use MAC filters on your Local Area Network (LAN).

Only allow computers with MAC address listed below to access the network

Select this option to allow only computers that are in the list access to the network and Internet. All other computers will be denied access to the network and Internet.

Only deny computers with MAC address listed below to access the network

Select this option to deny only computers that are in the list access to the network and Internet. All other computers will be allowed access to the network and Internet.

Name

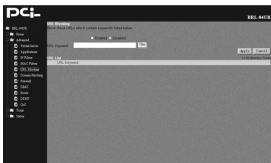
Enter the **Name** to create a profile for the associated computer(s) on the network.

MAC Address

Enter the MAC Address of the client that will be filtered.

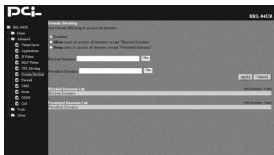
DHCP Client

Select from the DHCP Client list and click the Clone button to automatically clone that computer's MAC address to the MAC address field.

● Advanced > URL Blocking

Use URL Blocking filters to disallow computer(s) to access Internet with the following URL keywords entered into the list. The URL Blocking filters are useful features that are similar to parental control. Users can enter keywords that may have adult content, hack, or other materials to prevent computers connected to the Local Area Network (LAN) from accessing those web sites.

● Advanced > Domain Filter



Use Domain filters to allow or deny computers access to specific Internet domains whether it is through www, ftp, snmp, etc. Domain filters apply to wired computers connected to one of the four Ethernet LAN ports to the BRL-04UR.

● Advanced > Domain Filter

Disabled Domain Filter

Select this option if you do not want to use Domain filters.

Allow users to access the following domains and block all other domains

Select this option to allow users to access the specified Internet domains listed below. Users will be denied access to all other Internet domains.

Deny users to access the following domains and permit all other domains

Select this option to deny users to access the specified Internet domains listed below. Users will be allowed access to all other Internet domains.

Permitted Domains

Enter in the domain suffix of the Internet domain you want to use. (Example: shopping.com, sports.net.)

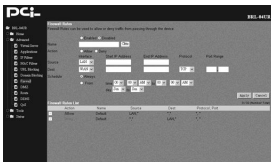
Blocked Domains

Enter in the domain suffix of the Internet domain you want to block. (Example: shopping.com, sports.net.)

Delete

Select this option to remove the domain suffix from the Permitted Domains or Blocked Domains list.

● Advanced > Firewall



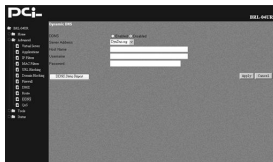
Firewall Rules is an advanced feature used to allow or deny traffic from passing through the Broadband Router. It works in the same way as IP Filters with additional settings. You can create more detailed access rules for the BRL-04UR. When virtual services are created and enabled, it will also display in Firewall Rules. Firewall Rules contains all network firewall rules pertaining to IP (Internet Protocol).

In the Firewall Rules List at the bottom of the screen, the priorities of the rules are from top (highest priority) to bottom (lowest priority.)



Note: The BRL-04UR MAC Address filtering rules have precedence over the Firewall Rules.

● Advanced > DDNS



DDNS (Dynamic Domain Name System) keeps dynamic IP addresses (e.g., IP addresses assigned by a DHCP capable router or server) linked to a domain name. Users who have a Dynamic DNS account may use this feature on the BRL-04UR.

DDNS

When an IP address is automatically assigned by a DHCP server, DDNS automatically updates the DNS server.

Provider

Select your provider from the pull-down menu.

Host Name

Enter the Host name.

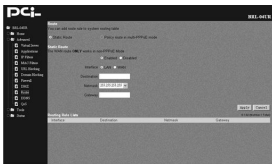
Username/Email

Enter the username/email address.

Password/Key

Enter the password/key.

● Advanced > Route



Static routes can be added if you require specific routes within your internal network. These routes will not apply to the WAN network.

Enable

Select this option for the specified static route to take effect.

Interface

Select this option for LAN side or WAN side.

Destination

Enter in the IP of the specified network that you want to access using the static route.

Subnet Mask

Enter in the subnet mask to be used for the specified network.

Gateway

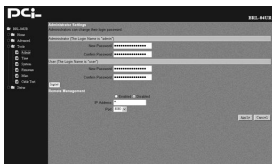
Enter in the gateway IP address to the specified network.

● Advanced > DMZ



If you have a computer that cannot run Internet applications properly from behind the BRL-04UR, then you can allow that computer to have unrestricted Internet access. Enable this feature and enter the IP address of that computer as a DMZ (Demilitarized Zone) host with unrestricted Internet access. Adding a client to the DMZ may expose that computer to a variety of security risks; so only use this option as a last resort.

- **Tools > Admin**



Administrator Settings

At this page, the BRL-04UR administrator can change the system password. There are two accounts that can access the Broadband Router's Web-Management interface. They are admin and user. Admin has read/write access while user has read-only access. User can only view the settings but cannot make any changes.

- **Tools > Admin**

Remote Management

Remote Management allows the BRL-04UR to be configured from the Internet by a web browser. A username and password is still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform **Administrator** tasks. This feature enables you to perform **Administrator** tasks from the remote (Internet) host.

IP Address

Internet IP address of the computer that has access to the Broadband Router. It is not recommended that you set the IP address to *, because this allows any InternetIP address to access the Broadband Router, which could result in a loss of security for your network. If you elect to Enable Remote Management, enter the IPAddress of your remote location.

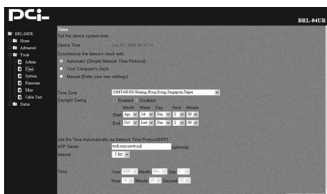
Port

Select the port number used to access the Broadband Router.

Example

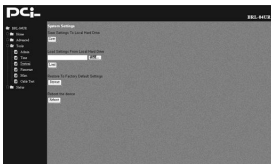
http://x.x.x.x:8080 whereas x.x.x.x is the WAN IP Address of the Broadband Router and 8080 is the port used for the Web-Management interface.

● Tools > Time



The system time is the time used by the BRL-04UR for scheduling services. You can manually set the time or connect to a NTP (Network Time Protocol) server. If an NTP server is set, you will need to set the time zone.

● Tools > System



The current system settings can be saved as a file onto the local hard drive. The saved file or any other saved setting file created by the BRL-04UR can be uploaded into the unit. To reload a system settings file, click on **Browse** to search the local hard drive for the file to be used. The device can also be reset back to factory default settings by clicking on the **Reset to Default** button. Use the restore feature only if necessary. This will erase previously saved settings for the unit. Make sure to save your system settings to the hard drive before doing a factory restore.

Save Settings to Local Hard Drive

Click **Save** to save the current settings to the local Hard Drive.

Load Settings from Local Hard Drive

Click **Browse** to find the settings file, then click **Load**.

Restore to Factory Default Settings

Click **Restore** to restore the factory default settings.

Reboot the Device

Click **Reboot** to reboot the device.

● Tools > Firmware

You can upgrade the firmware by using this tool. First, check the Planex support site for firmware updates at <http://www.planex.net>. Make sure that the firmware you want to use is saved on the local hard drive of your computer. Click on **Browse** to search the local hard drive for the firmware that you downloaded from the Planex website to be used for the update. Upgrading the firmware will not change any of your system settings but it is recommended that you save your system settings before doing a firmware upgrade.

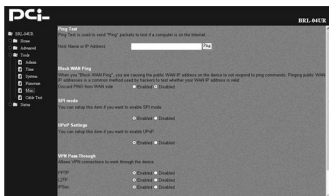
Browse

After you have downloaded the new firmware, click **Browse** in this window to locate the firmware update on your hard drive. Click **Apply** to complete the firmware upgrade.



Note: Do not power off the unit when it is being upgraded. When upgrade is complete, the unit will be restarted automatically.

● Tools > Misc Tools > Misc



Ping Test

This diagnostic utility can be used to check if a computer is on the Internet. It sends ping packets and listens for replies from the specific host.

Block WAN Ping

Click **Enable** to block the WAN ping. Computers on the Internet will not get a reply back from the BRL-04UR when it is being ping ed. This may help to increase security.

SPI Mode

Stateful Packet Inspection is a form of firewall protection that will inspect all of the packets transmitted through the BRL-04UR. It carefully inspects all incoming packets and if the packets contain suspicious information, it will automatically drop those packets.

UPnP Setting

Universal Plug and Play is a feature that is preset to allow certain popular applications such as MSN messenger to be functional using the router without making any configurations. By default, theUPnP Setting is set to enable. It is recommended to keep the UPnP Setting on enable.

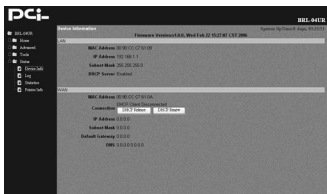
VPN Pass Through

For users who telecommute or use Virtual Private Network (VPN), you can select PPTP or IPSec to be used with this router.

WAN Select to 10/100 Mbps

Default is 10/100 Mbps, change it if necessary.

● Status > Device Info



This page in the Configuration Utility displays the current information for the Broadband Router. It will display the WAN, LAN, and MAC address information. If your WAN connection is set up for **Dynamic IP** address a **Release** button and **Renew** button will be displayed. Use **Release** to disconnect from your ISP and use **Renew** to connect to your ISP. If your WAN connection is set up for **PPPoE**, a **Connect** button and **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection. This page allows you to observe the BRL-04UR's working status:

● **Status > Device Info**

LAN

LAN MAC Address

Displays the LAN port MAC/hardware address.

IP Address

LAN/Private IP Address of the BRL-04UR.

Subnet Mask

LAN/Private Subnet Mask of the BRL-04UR.

WAN

WAN MAC Address

Displays the WAN port MAC/hardware address.

IP Address

WAN/Public IP Address.

Subnet Mask

WAN/Public Subnet Mask.

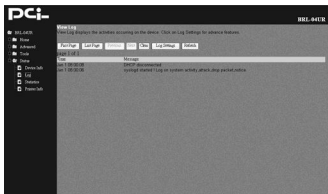
Gateway

WAN/Public Gateway IP Address.

Domain Name Server

WAN/Public DNS IP Address.

● Status > Log



The Broadband Router keeps a running log of events and activities occurring on the router. If the device is rebooted, the logs are automatically cleared. You may save the log files under **Log Settings**.

First Page:

The first page of the log.

Last Page

The last page of the log.

Previous

Moves back one log page.

Next

Moves forward one log page.

Clear

Clears the logs completely.

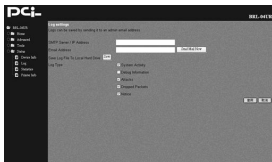
Log Settings

Brings up the page to configure the logs.

Refresh

Reload this page.

● Status > Log Settings



Log Settings

Displays the logs of activities and events, and can be setup to send these logs to another location.

E-Mail Alert

The BRL-04UR can be set up to send the log files to a specific email address.

SMTP Server IP

Input the SMTP information. Usually, this is provided by your Internet Service Provider (ISP).

Send E-Mail alert to

Enter in the email address of the recipient who will receive the email log.

Send Mail Now

Click to send mail now.

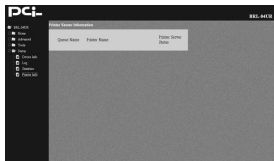
Save Log File To Local Hard Drive

Click to save log file to local hard drive.

Log type

Informations to save to local hard drive.

2.8 Set Up the Print Server



● Status>Printer Info

1. Click **Start**, point to **Settings**, and select **Printer**.
2. Run **Add a printer**, Click **Next**.
3. The Add Printer Wizard screen will appear, Select **Local Printer** and click **Next**.
4. From the type of **Create a new port** box as shown in the following picture, select the **Standard TCP/IP Port**, Click **Next** and **Next**.



- The **Add Standard TCP/IP Printer Port Wizard** box will then appear as shown the picture as below, and type in the router's IP address in the **Printer Name or IP Address** box, and you can change the **Port Name** (optional). Click **Next**.



In the **Add Standard TCP/IP Printer Port Wizard** box as shown in the following picture, Select **Custom**, Click **Settings** button.



6. In the **Configure Standard TCP/IP Port Monitor** box as shown in the following picture, select **LPR** from Protocol, type in a queue name: **lp1** for USB Port (Port 1).



7. Click **OK**, and **Next**.



Note: Please **DO NOT** type any other name than **lp1** in this step.

8. Click **Finish**.
9. Select the appropriate printer manufacturer and printer type list and click **Next**.
10. Type in a new **Printer name** or leave it in default, and click **Next** button.
11. A message reading, **To confirm that the printer is installed properly, you can print a test page. Select Yes (Recommended)** and click **Next**.
12. Click **Finish**.
13. Done.

2.9 Specification

Model Number		BRL-04UR
Standards Conformance		LAN : IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x Flow Control
		WAN : IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x Flow Control
Data Transfer Speed		10/100Mbps (Auto-Negotiation)
Network Port Configuration	WAN Port	10/100BASE-TX Auto-Negotiation Port x 1 (RJ-45 connector) *AutoMDI/MDX Supported
	LAN Port	10/100BASE-TX Auto-Negotiation Port x 4 (RJ-45 connectors) *AutoMDI/MDX support on all ports
Supported WAN Lines		<ul style="list-style-type: none"> ● Static IP Address (Multiple Public IP address support) ● Dynamic IP Address (DHCP Client) ● PPP over Ethernet ● PPTP ● L2TP
Supported Network Cables		10BASE-T Category 3 (or greater) twisted-pair cable (100m) 100BASE-TX Category 5 (or greater) twisted-pair cable (100m)
Supported Protocol		TCP/IP
Throughput		100Mbps
Address Translation		<ul style="list-style-type: none"> ● NAT / NAPT ● Virtual Server support ● DMZ hosting
DHCP Server		Supports up to 253 addresses (LAN ports only, can be disabled)
DHCP Client		Acquires an IP address from ISP (WAN port only)
PPPoE		Supports 2 session Monitoring/Automatic Connection, Keep Alive, Monitoring/Automatic Disconnection
UPnP		Support
Dynamic DNS		Support
Access Control		<ul style="list-style-type: none"> ● URL filter ● Domain name to enforce access policy.
VPN Pass Through		<ul style="list-style-type: none"> ● PPTP pass through ● IPSec pass through ● L2TP pass through
USB 1.1 Host support		Support

Print Server	Printer Interfaces	USB1.1 (Type A Connector) x 1
	Supported Printer	USB
	Supported OSes	Windows 2000/XP
	Configuration	Windows Proprietary Utility, WEB browser
Configuration Interface		Web browser
LED		POWER Status WAN LAN / USB
Power Input		DC 5V/2A
Dimensions (W x H x D)		100(W) x 150(H) x 30(D)mm
Weight		200 g
Operating Temperature		0 to 45 degrees Celsius
Operating Humidity		10 to 95%(non-condensing)
Required Network Cables		The product supports the following Network Cables -Twisted-pair cable (Required quantity: the number of PCs attached to the product)
ADSL/Cable Modem		<ul style="list-style-type: none"> ● External ADSL modem with an RJ-45(LAN) port ● External cable modem with an RJ-45(LAN) port
EMI		VCCI, CE ,

<http://www.planex.net>
