

ePAD™ 5.0 Mobile Keypad: Configuring Your Router

This supplemental document explains how to configure a network router for use with the ePAD. Refer to the complete set of ePAD documents for complete installation, programming, and operation instructions: ePAD Installation Sheet (LT-0545), ePAD Programming Guide (LT-0664), and ePAD Quick Reference Guide (LT-0665).

What is a Router?

A router is a network device that directs message to other network devices. It also acts like a shield between the internal network (with the ePAD) and the rest of the Internet. In order for the proper information to pass through the router, a port must be opened (also called mapped or forwarded). By default, your Router should be automatically configured to operate properly with the ePAD™ 5.0 Mobile Keypad. You must still configure one thing: Ports. Please note that default values are used in these directions. If you are not using the default values, substitute the necessary values when programming the router.

Note: Be sure that the port used for the ePAD, port 80 by default, is open. The Internet Service Provider (ISP) or a commercial site network administrator may instruct you to use a different port.

The ePAD IP Address when Using a Router

When the ePAD is connected to a router using DHCP (Dynamic Host Configuration Protocol) allowing a device to be assigned a different local IP address every time it connects to the network, you still must assign the ePAD a static (non-changing) IP Address. The router has a range of IP Addresses, typically 100 through 199, reserved for DHCP devices. Select an IP Address for the ePAD that is not within the DHCP range and that is not assigned to another device on the network, such as 192.168.0.251.

For example, when using the LinkSys Router discussed below, the range of DHCP IP Addresses is 100 through 149. The ePAD should then be assigned an IP Address outside of that range, such as 251. In the **Configuring a LinkSys Router** section, 251 is used as the example ePAD IP Address.

For example, when using the D-Link Router discussed on the following page, the range of DHCP IP Addresses is 100 through 199. The ePAD should then be assigned an IP Address outside of that range, such as 251. In the **Configuring a D-Link Router** section, 251 is used as the example ePAD IP Address.

Note: Be sure that the ePAD is programmed with an appropriate IP Address that is not within the router DHCP range and not assigned to any other device. If you cannot communicate to your ePAD using your router, the ePAD IP Address may not be correct. Verify that the ePAD IP Address is correct and then attempt to communicate again.

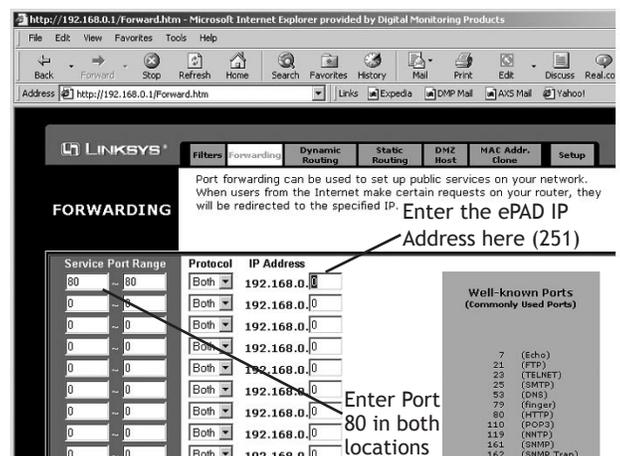
Configuring a LinkSys Router

Note: Your Router model and firmware version may differ from the one shown on the screen shots from Model BEFSR41 version 2. However, the information in each model and firmware version is very similar.

Refer to the User's Guide for the Router you are configuring for complete information. LinkSys technical support can be reached at 1-800-326-7114.

After you log into the router through a browser using the router default address 192.168.1.1, the **Setup** page opens. Enter 192.168.0.1 for the **LAN IP Address** (Device IP Address). This assigns 192.168.0.1 as the Router IP Address. Click **Apply**.

Click on the **Advanced** tab near the top of the window. Then click on the **Forwarding** tab. In the **Forwarding** window, follow the directions below to forward your Router ports.



1. Enter the **Service Port Range** of the service you are using. For the ePAD HTTP Port, enter the range 80 to 80.
2. Select Both from the **Protocol** drop-down box.
3. Enter the last three digits (last octet) of the ePAD IP Address in the **IP Address** field. The beginning digits already match the ePAD IP Address beginning digits.

ePAD Port Name	Service Port Range	Protocol	IP Address
HTTP Port	80 to 80	Both	192.168.0.251

Once the configuration is completed, click the **Apply** button and then the **Continue** button.



Configuring a D-Link DI-704P Router

By default, your Router should be automatically configured to operate properly with the ePAD™ 5.0 Mobile Keypad, but you must configure ports. Follow the directions below to properly map (or forward) the ports. See the User's Guide for the Router you are using. D-Link technical support can be reached at 1-877-45-DLINK.

Note: Your Router model and firmware version may differ from the one shown on the screen shot. The information is very similar in each model and firmware version. Refer to the User's Guide for the Router you are configuring for complete information.

After you log into the router, click on the word **Advanced** near the bottom of the window. Then click on the **Virtual Server** link.

In the **Virtual Server** window, follow the directions below to forward your Router ports.

1. Enter 80 in the **Service Port** field for the ePAD HTTP Port.
2. Enter the last three digits (last octet) of the ePAD IP Address (251) in the **Server IP Address** field. The beginning digits already match the ePAD IP Address beginning digits.
3. Select the box under **Enable**. A checkmark appears when properly selected.

ePAD Port Name	Service Port	Server IP Address	Enable
HTTP Port	80	192.168.0.251	X

4. Click **Log Out** when the Router configuration is completely finished.

ID	Service Port	Server IP	Enable
1	80	192.168.0.251	<input checked="" type="checkbox"/>
2		192.168.0.	<input type="checkbox"/>
3		192.168.0.	<input type="checkbox"/>
4		192.168.0.	<input type="checkbox"/>
5		192.168.0.	<input type="checkbox"/>
6		192.168.0.	<input type="checkbox"/>
7		192.168.0.	<input type="checkbox"/>
8		192.168.0.	<input type="checkbox"/>
9		192.168.0.	<input type="checkbox"/>
10		192.168.0.	<input type="checkbox"/>
11		192.168.0.	<input type="checkbox"/>
12		192.168.0.	<input type="checkbox"/>

Configuring a D-Link DI-804 Router

By default, your Router should be automatically configured to operate properly with the ePAD™ 5.0 Mobile Keypad, but you must configure ports. Follow the directions below to properly configure the DI-804 for operation with the ePAD. Also see the User's Guide for the router you are using. D-Link technical support can be reached at 1-877-45-DLINK.

After you log into the router, click on the **Cable/DSL ISP Settings** button on the left side of the window. Enable the checkbox next to **Your ISP Dynamically assigns you the WAN IP Address:** A checkmark appears when properly enabled. This is enabled by default. Click **Next** to save the changes and proceed to the next page.

In the **ISP Additional Settings** page, enable the checkbox next to **Your ISP requires you to input the Host Computer Name.** In the field, enter the Host Computer Name that the ISP gave you. Click **Next** to save the changes.

Click on the **Advanced Settings** button near the top of the window. Then click on the **Virtual Server Settings** button.

1. Enter the last three digits (last octet) of the ePAD IP Address (251). The beginning digits already match the ePAD IP Address beginning digits. You must enter the 251 for ports 1 and 2.
2. For the top line (1) in the window, select HTTP from the drop-down list. For the next line down (2), select TELNET from the drop-down list.

Note: When using a DI-804 you must change the ePAD **Upgrade Port** to 23. Be sure to also change the **Upgrade Port** in Remote Link as well.

3. Click **Submit** when completely finished configuring the Router.

Internal IP	Service
1. Internal IP 192.168.0.251	Service ALL
2. Internal IP 192.168.0.251	Service NONE
3. Internal IP 192.168.0.0	Service HTTP
4. Internal IP 192.168.0.0	Service SMTP
5. Internal IP 192.168.0.0	Service POP3
6. Internal IP 192.168.0.0	Service FTP
7. Internal IP 192.168.0.0	Service TELNET
	Service IRC
	Service ALL
	Service NONE



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