

## 1. Before you start

The DFL-500 has the following settings when first powered on.

<b>Operating Mode:</b>		NAT/Route
<b>Administrator Account:</b>	User name:	admin
	Password:	(none)
<b>Internal Interface:</b>	IP:	192.168.1.99
	Netmask:	255.255.255.0
<b>External Interface:</b>	Manual: IP:	192.168.100.99
	Netmask:	255.255.255.0
	Default Gateway:	(none)
	Primary DNS Server:	207.194.200.1
	Secondary DNS Server:	207.194.200.129

Use the following table to gather the information you need to customize basic settings for your DFL-500.

<b>Administrator Password:</b>			
<b>Internal Interface:</b>	IP:	_____ . _____ . _____ . _____	
	Netmask:	_____ . _____ . _____ . _____	
<b>External Interface:</b>	Manual: IP:	_____ . _____ . _____ . _____	
	Netmask:	_____ . _____ . _____ . _____	
	Default Gateway:	_____ . _____ . _____ . _____	
	Primary DNS Server:	_____ . _____ . _____ . _____	
	Secondary DNS Server:	_____ . _____ . _____ . _____	
<b>Internal Server Settings:</b>	Web Server:	_____ . _____ . _____ . _____	
	Mail Server:	SMTP:	_____ . _____ . _____ . _____
		POP3:	_____ . _____ . _____ . _____
	FTP Server:	_____ . _____ . _____ . _____	
If you provide access from the Internet to a web server, mail server, or FTP server installed on an internal network, add the IP addresses of the servers here.			

## 2. Advanced settings

Use the following table to gather the information you need to customize advanced DFL-500 settings that can be configured using the setup wizard.

<b>External Interface:</b>	DHCP:	If your ISP supplies you with an IP address using DHCP no further information is required.	
	PPPoE:	User name:	<input type="text"/>
		Password:	<input type="text"/>
If your ISP supplies you with an IP address using PPPoE, record your PPPoE user name and password. You can configure the external interface for PPPoE using the setup wizard.			
<b>DHCP Server Settings:</b>	Starting IP:	<input type="text"/>	<input type="text"/>
	Ending IP:	<input type="text"/>	<input type="text"/>
	Netmask:	<input type="text"/>	<input type="text"/>
	Default Route:	<input type="text"/>	<input type="text"/>
	DNS IP:	<input type="text"/>	<input type="text"/>
The DFL-500 contains a DHCP server that you can configure to automatically set the addresses of the computers on your internal network. You can configure the DHCP server using the setup wizard.			

## 3. DFL-500 package contents



## 4. Powering up your DFL-500

1. Install your DFL-500 as a free-standing appliance on any stable surface.

Make sure it has at least 1.5 in. (3.75 cm) of clearance on each side to allow for adequate air flow and cooling.

2. Connect the AC adapter to the power connection at the back of the DFL-500.
3. Connect the AC adapter to a power outlet.

The DFL-500 starts up. The Power and Status lights light. The Status light flashes while the DFL-500 is starting up and remains lit when the system is up and running.

## 5. DFL-500 LED indicators

LED	State	Description
<b>Power</b>	Green	The DFL-500 is powered on.
	Off	The DFL-500 is powered off.
<b>Status</b>	Flashing Green	The DFL-500 is starting up.
	Green	The DFL-500 is running normally.
	Off	The DFL-500 is powered off.
<b>Internal External (Front)</b>	Green	The correct cable is in use, and the connected equipment has power.
	Flashing Green	Network activity at this interface.
	Off	No link established.
<b>Internal External (Back)</b>	Green	The correct cable is in use, and the connected equipment has power.
	Flashing Amber	Network activity at this interface.
	Off	No link established.

## 6. Using the Firewall Setup Wizard

To run the Setup Wizard, you must connect to the DFL-500 web-based manager. You require:

- A management computer with an ethernet connection
- Internet Explorer version 4.0 or higher
- A crossover cable or an ethernet hub and two ethernet cables

To run the Setup Wizard:

1. Set the IP address of the computer with an ethernet connection to the static IP address **192.168.1.2** and a netmask of **255.255.255.0**.
2. Using the crossover cable or the ethernet hub and cables, connect the internal interface of the DFL-500 to the computer ethernet connection.



3. Start Internet Explorer version 4.0 or higher. Type **https://192.168.1.99** into the Address field and press Enter.

Your browser connects to the web- based manager and the DFL-500 login page appears.

4. Type admin in the Name field and select Login.
5. Select the Wizard button at the upper right of the web- based manager to start the setup wizard.
6. Use the information you gathered on the first two pages of this *Quick Install Guide* to fill in the wizard fields as required. Select next to step through the wizard pages.
7. Confirm your configuration settings and then select Finish and Close.

You are ready to connect the DFL-500 to your network.

## 7. Basic configuration using the CLI

As an alternative to the setup wizard, you can use the command line interface (CLI) to configure the DFL-500.

To use the CLI:

1. Connect one end of the null-modem cable to the DFL-500 Console (RS-232 serial) connector and connect the other end to a serial port of a management computer or terminal.
2. On the management computer, start a terminal program such as HyperTerminal.

3. Set the Baud Rate (bps) to 9600, Data bits to 8, Parity to None, Stop bits to 1, and flow control to None.
4. Press Enter to connect to the DFL-500.
5. At the D-Link Login: prompt, type admin and press Enter twice.
6. Set the internal interface to the Internal IP Address and netmask.

For example, to set the internal interface to IP address 192.168.1.1 and netmask to 255.255.255.0 enter:

```
set system interface internal ip 192.168.1.1
255.255.255.0
```

7. Set the external interface to the External IP Address and Netmask.

For example, to set the Manual IP address to 204.23.1.5 and netmask to 255.255.255.0 enter:

```
set system interface external ip 204.23.1.5
255.255.255.0
```

To set the external interface to use PPPoE and to set the PPPoE user name to username and the PPPoE password to password enter:

```
set system interface external pppoe enable username
password
```

To set the external interface to use DHCP enter:

```
set system interface external dhcp enable
```

8. To check your changes, enter:

```
get system interface
```

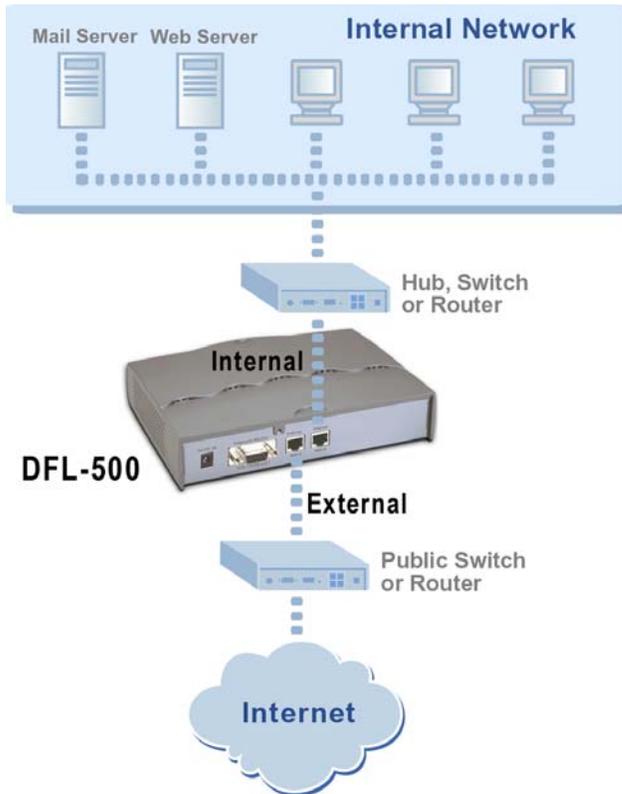
9. Set the default route to the Default Gateway IP address.

For example to set the default route to 204.23.1.2 enter:

```
set system route add 0.0.0.0 0.0.0.0 gw 204.23.1.2 dev
external
```

Once these addresses are set, you are ready to connect the DFL-500 to your network.

## 8. Connecting the DFL-500



There are two 10/100 BaseTX connectors on the DFL-500:

- Internal for connecting to your internal network
- External for connecting to your public switch or router and the Internet

To connect the DFL-500:

1. Connect the Internal interface to the hub or switch connected to your internal network.
2. Connect the External interface to the public switch or router provided by your Internet Service Provider.

## 9. Advanced configuration

You have completed the basic network setup of your DFL-500. By default all traffic originating from your Internal network is allowed to reach the Internet, and all traffic originating from the Internet is blocked from reaching your internal network.

You can continue configuring the DFL-500 by connecting to the web-based manager from the internal network. Browse to <https://> followed by the IP address of the DFL-500 internal interface.

You can now customize your DFL-500 configuration using the information in the *DFL-500 User Manual* and in the DFL-500 web-based manager online help.



You can:

- Customize the firewall configuration
- Add and configure IPSec, PPTP, and L2TP VPNs
- Configure the Network Intrusion Detection (NIDS)
- Customize virus and worm protection
- Configure logging and reporting
- Customize the DFL-500 system configuration

## Transparent mode

This *Quick Install Guide* describes how to configure the DFL-500 to run in Network Address Translation (NAT) mode. You can also configure the DFL-500 to run in Transparent mode. Refer to the Transparent mode installation chapter of the *DFL-500 User Manual*.

# 10. Troubleshooting

## Reconnecting to the web-based manager

If you changed the IP address of the internal interface, you must reconnect to the web-based manager by browsing to <https://> followed by the new IP address. You may also have to change the IP address of the management computer to be on the same subnet as the internal interface.

## Restarting the DFL-500

At any time during the installation process if the DFL-500 is not responding correctly, you can shut it down and restart it.

Using the web-based manager:

- Go to **System > Status**.

- Select Restart.

Using the CLI:

- Enter the command.  
`execute reboot`

You can cycle the power on the DFL-500 using the power switch on the back of the unit.

## **Resetting the DFL-500 to the factory default configuration**

If restarting does not solve the problem, you can restore the DFL-500 to its factory default configuration.

Using the web-based manager:

- Go to **System > Status**.
- Select Restore Factory Defaults and select OK.  
The DFL-500 restarts with the configuration that it had when first powered on.

Using the CLI:

- Enter the command.  
`execute reset`

The DFL-500 restarts with the configuration that it had when first powered on.