



Broadband Access Division

Hi-FOCuS™

B-FOCuS

Router 312+

User Guide

<http://www.ecitele.com/b-focus>



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1 Introduction

Thank you for choosing ECI Telecom’s B-FOCuS 312+ Router as your gateway to the world of fast Internet. Your new router is a state-of-the-art unit that includes an ADSL router and an advanced router, enabling you to create and connect a network of computers to a single ADSL line. Your router also provides a powerful firewall that will secure your home network and computers from unwelcome intrusions.

1.1 Package Contents

Please check that your package contains the following items.

Table 1. B-FOCuS 312+ Package Contents

Item	Equipment	Description	Quantity
1		B-FOCuS 312+ router	1
2		AC power adaptor 12V, 1A	1
3		RJ-45 cable for connecting router to computer via 10/100 base-T Ethernet port	1
4		RJ-11 cable for connecting to the ADSL line	1

2 Hardware Installation

The following diagram and explanations will help you install your router.

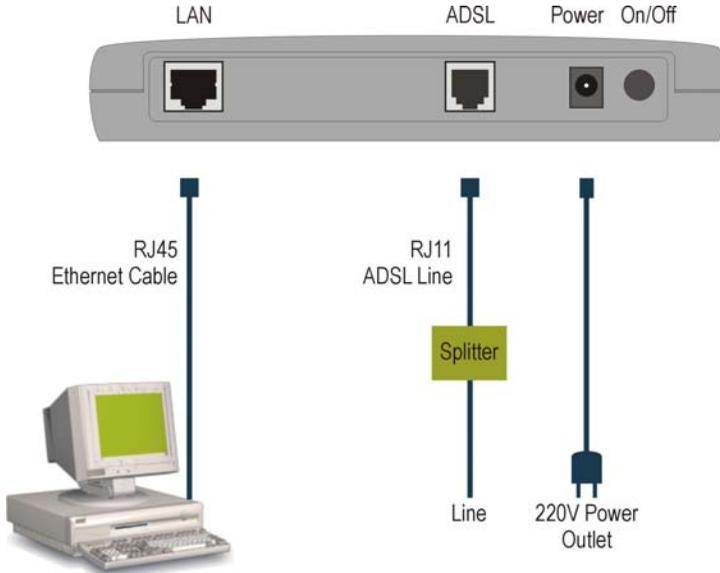


Figure 1. B-FOCuS 312+ Router Connection Diagram

➤ To connect your router

1. Connect one end of the RJ-45 Ethernet cable to a LAN port on your router and the other end to the LAN port of one computer.
2. Connect one end of the RJ-11 telephone cable to the ADSL port on the back of your router and connect the other end to the ADSL port on the phone line splitter.
3. Connect the AC power adapter. Only use the power adapter supplied with the router.
4. Turn on the power and proceed to *Section 3, Basic Software Configuration*.

3 Basic Software Configuration

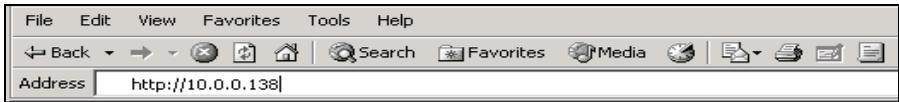
In order to connect to your service, you must set up your router as described in this section.

3.1 Logging in to Your Router

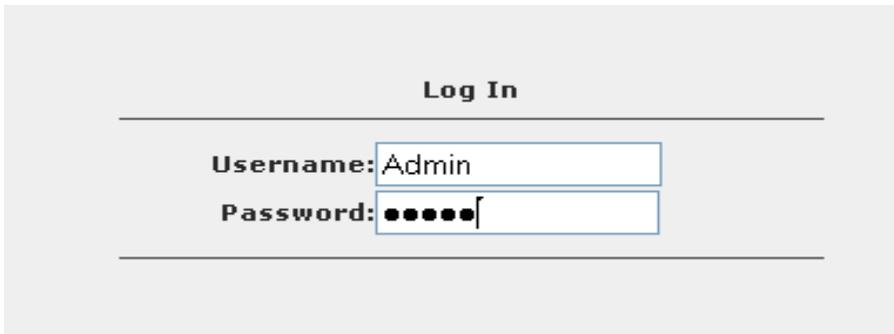
To open the configuration options of your router, use your Internet browser.

➤ To log in to your router

1. Open your Internet browser and type **10.0.0.138** in the address bar.



The Log In window is displayed.



2. Enter the username **Admin** and password **Admin**.

Note: The username and password are case-sensitive.

3. Click **Log In**. The Home Page window is displayed.

If you are unable to open the Configuration utility, perform the following steps.

- a. From the computer desktop, select **Start > Settings > Network and Dial-up Connections > Local Area Network**. To restart your network card, click **Disable** and then restart the network card. Try again to log in to the configuration utility.

- b. If you are still unable to connect to the configuration utility, then from your Internet browser, select **Tools > Internet Options** and click **Delete Cookies**, **Delete Files**, and **Clear History**. Try again to log in to the configuration utility.

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HOME SETUP ADVANCED TOOLS STATUS HELP

Home

Setup
The Setup section allows you to create new connections, edit existing connections, and configure other basic settings.

Advanced
The Advanced section lets you configure advanced features like RIP, Firewall, NAT, UPnP, IGMP, Bridge Filters, and LAN clients.

Tools
The Tools section lets you carry out system commands and perform simple system tests.

Status
The Status section displays status, log and statistical information for all connections and interfaces.

Help
The Help section provides information on configuration and settings for each section.

Status Information

System Uptime: 0 hours 12 minutes	Ethernet: Connected
DSL Status: Disconnected	Software Version: T360A.050205a1_D7
DSL Speed: 0/0kbps	

4. Click the **Setup** tab.

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HOME **SETUP** ADVANCED TOOLS STATUS HELP

Setup

The Setup section allows you to create new connections, edit existing connections, and configure other basic settings.

LAN Setup

LAN Configuration Select to assign physical interfaces to LAN and configure LAN IP address, LAN DHCP Server.

Ethernet Switch Select to configure ethernet switch settings.

WAN Setup

New Connection Select to configure a new connection.

Modem Select to setup your modem.

You have logged in to the configuration utility and are now ready to configure your router.

3.2 Setting Up a Connection

➤ To set up a new connection

1. From the Setup window, click **New Connection**. The Connection Setup window is displayed.

The screenshot shows the 'PPPoA Connection Setup' window. The left sidebar contains navigation options: LAN Setup, LAN Configuration, Ethernet Switch, Firewall/NAT Services, WAN Setup, New Connection (highlighted), Modem, Connection 1, and Log Out. The main area is titled 'PPPoA Connection Setup' and contains the following fields and controls:

- Name:** USER
- Type:** PPPoA
- Sharing:** Disable
- Options:** NAT, Firewall
- VLAN ID:** 0
- Priority Bits:** 0
- PPP Settings:**
 - Encapsulation: LLC, VC
 - Username: username
 - Password: masked with dots
 - Idle Timeout: 60 secs
 - Keep Alive: 10 min
 - Authentication: Auto, CHAP, PAP
 - MTU: 1500 bytes
 - On Demand: Default Gateway: Debug:
 - PPP Unnumbered: LAN: LAN group
- PVC Settings:**
 - PVC: New
 - VPI: 8
 - VCI: 48
 - QoS: UBR
 - PCR: 0 cps
 - SCR: 0 cps
 - MBS: 0 cells
 - CDVT: 0 usecs

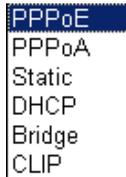
Buttons at the bottom: Connect, Disconnect, Apply, Delete, Cancel. A note at the bottom left states: * Can't start with a numeral.

2. Give your new connection a name.

Note: Any name is legal, for example, the name of your service provider, but you may not use spaces or special characters.

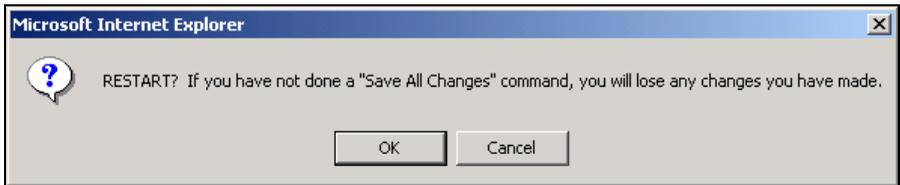
3. In the Options section, it is recommended to enable NAT and Firewall in order to protect your network from intrusions.
4. Configure the parameters for the network.

For the connection Type, select according to your network type, for a home network, choose PPPoE.



In the PVC Settings section, in the VPI box, type **8**. In the VCI box, type **35**.

5. Click **Apply**.
6. To save the changes, click the **Tools** button (at the top of the page) and select **System Commands**. From the System Commands page, click **Save All**.
7. To make the changes effective, click the **Tools** button (at the top of the page) and select **System Commands**. From the System Commands page, click **Restart**. The Restart Confirmation message box is displayed.



8. Click **OK**.

You have completed the basic software configuration for your router. The router will restart after a few seconds and connect to the Internet. Open your browser and enjoy surfing the net.

If you are unable to connect to the Internet, see Section 6, *Troubleshooting*.

4 Safety Considerations

The B-FOCuS 312+ Router is designed for in-house desktop use only. Therefore:

- Do not expose to direct sunlight.
- Do not expose to temperatures exceeding 40°C.
- Do not immerse in water, and do not dampen or install in wet conditions.

5 Buttons and LEDs

5.1 Buttons/Ports

This section describes the ports and buttons on the router.

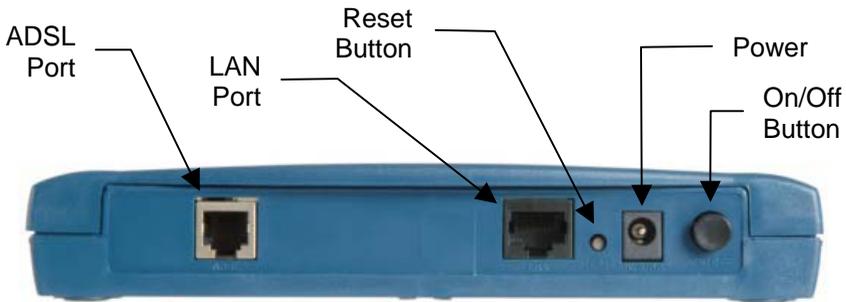


Figure 2. B-FOCuS Router 312+ Back Panel

- **Reset Button.** To reset the router, press and release the Reset button; after about 30 seconds the unit will become operational.
- **Restore to Factory Defaults.** You may need to restore the factory defaults if the configuration of your unit is changed, if you lose both network connectivity and the ability to interface to the unit via the web interface, or following a failed software upgrade. To restore factory defaults, press the Reset button for more than 10 seconds. The unit reverts to its factory defaults and after about 30 seconds becomes operational again.
- **LAN (Local Area Network) Port.** Connect to Ethernet network devices, such as a PC, hub, switch, or router. Depending on the connection, you may need a cross-over cable or a straight-through cable.
- **Power.** Make sure you observe the proper power requirements.
- **ADSL Port.** WAN interface that connects directly to the phone line.

5.2 LED Descriptions

The following pictures show where the LED indicators are positioned on the units. An explanation of each LED follows.

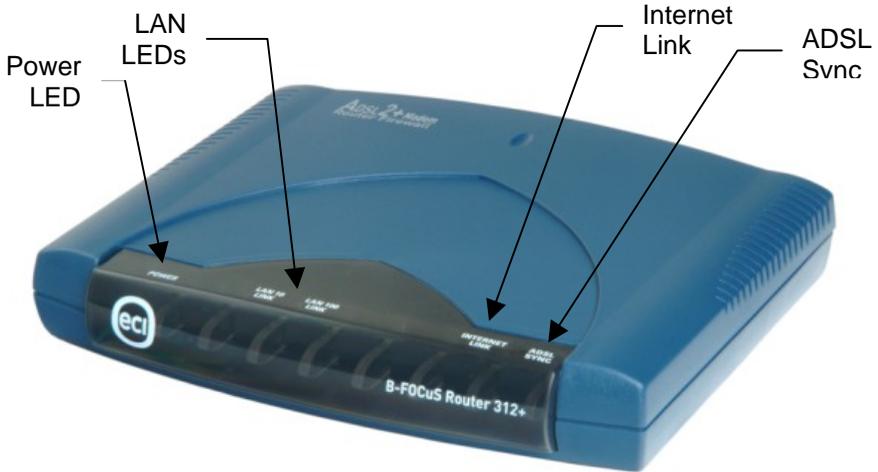


Figure 3. B-FOCuS Router 312+

- **Power LED.** Indicates that power is supplied to the unit.
- **ADSL Link.** This LED serves two purposes. If it is continuously lit, the ADSL interface is successfully connected to a device through the WAN port. If the LED flickers, the router is training.
- **LAN Link.** This LED serves two purposes. If it is continuously lit, the Ethernet interface is successfully connected to a device through the LAN port. If it flickers, network activity is in progress.
- **Internet Link.** The Internet LED is off if no connection is established or the connection is not used. When it is green, an Internet connection has been established.

5.3 LED Table

The LED table below can help diagnose problems.

Table 2. B-FOCuS Router LEDs

LED	LED Status		
	Off	Green	Blinking
Power	Power not applied	Normal Operation	N/A
ADSL Link	ADSL line not connected	ADSL line is trained	ADSL line is training
LAN Link	Wrong type of Ethernet cable used	Ethernet line is connected	Ethernet traffic is flowing
Internet Link	No Internet link established	Internet link established	N/A

6 Troubleshooting

Below is a list of common problems. Before calling technical support, please look through these issues to see if they help solve your problem.

6.1 The Router is not Functional

- Check that the power LED is green.
- Check that the network cables are installed correctly.
- Check that the LAN and Internet Link LEDs are green.
- Check that the ADSL Sync LED is green.
- Make sure that your PC and the router are on the same network segment. The router's default IP address is 10.0.0.138; make sure that your PC's network adapter is within the same 10.0.0.x subnet. If you are running Windows, you can open a DOS window and type IPCONFIG to verify this data.
- Ping the router from your PC.
 - a. From the desktop, click **Start > Run**.
 - b. In the Open box, type **Ping 10.0.0.138**
 - c. A positive result displays as:
Reply from 10.0.0.138 bytes=32 time<10ms TTL=255.
- Ping the WAN.
- If you can ping the router and your protocols are configured correctly, you should be able to ping the ISP's network (your ISP should have provided the IP address of their server). If you cannot ping the ISP's network, make sure you are using the correct protocols with the correct VPI/VCI values.
- Make sure NAT is enabled for your connection. If NAT is disabled your router will not route frames correctly.
- Disable proxies on your browser. If you access the router, and instead of receiving the Login window, the browser displays a login redirection message, you should verify that JavaScript support is enabled.

- Disable your network card and then enable it.
- Delete your temporary Internet files, history files, and cookies.
- Verify that your Windows LAN is configured for dynamic IP Addresses.
- Verify that none of your applications are trying to create a dial-up connection to the Internet.
- If your router does not work after performing all the steps above, press the reset button on the back panel for 10 seconds until the ADSL Sync lamp turns off. The router will revert into its factory default settings. Perform the above procedures again.

6.2 The ADSL Link LED Blinks but Does Not Go Solid

The ADSL line is trying to train but for some reason it cannot establish a valid connection. You are too far from the telco central office. Contact your DSL service provider for further assistance.

6.3 The DSL Link LED is Always Off

Make sure you have ADSL service. You should get some kind of information from your ISP that states that ADSL service is installed. You can usually tell if the service is installed by listening to the phone line; you will hear some high-pitched noise. If you cannot hear high-pitched noise, contact your ISP.

Verify that the phone line is connected directly to the wall socket and to the ADSL input on your router. If you have installed a splitter on the phone line, and accidentally connected the router to the phone side, the ADSL light will not come on.