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# PROLINK

## Hurricane 9000/B

Ethernet ADSL Modem

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### User's Manual

for SingNet Broadband only



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## Section One - Introduction

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The Hurricane 9000 /B provides Full rate (ANSI and G.DMT) as well as G.lite ADSL standards line support, and can be connected to PC through Ethernet . This product supports bridge feature set for the integration of ADSL service into corporate or home LAN and WAN.

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### 1.1 System Requirements

Before connecting the Hurricane 9000 /B to your PC, make sure your system is equipped with the Ethernet NIC card and TCP/IP protocol.

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### 1.2 Features Summary

#### ADSL Compliance

Compliant with ADSL standards:

- ANSI T1.413 Issue 2, ITU G.dmt (G.992.1) and G.lite (G.992.2).
- ADSL over POTS (Annex A) and ADSL over ISDN (Annex B)
- DMT modulation and demodulation
- Full-rate adaptive modem
- Maximum downstream rate of 8 Mbps
- Maximum upstream rate of 1 Mbps
- Tone detection for low power mode
- Supports splitterless ADSL implementation
- Supports Dying Gasp (optional)

#### ATM Protocols

- WAN mode support: PPP over ATM and over Ethernet. (RFC 2364/2516)
- LAN mode support: bridged/routed Ethernet over ATM (RFC 1483) and Classical IP over ATM (RFC 1577)
- ATM Forum UNI 3.1/4.0 PVC
- Up to 8 VCs (Virtual Circuits)
- ATM SAR (Segmentation and Reassembly)
- ATM AAL5 (Adaption Layer type 5)
- OAM F4/F5

## **Bridge Mode**

Ethernet to ADSL self-learning Transparent Bridging (IEEE 802.1D)

Supports up to 128 MAC learning addresses-

## **Security**

User authentication for PPP

PAP (Password Authentication Protocol)

CHAP (Challenge Authentication Protocol)

Password protected system management

## **Ethernet interface**

Compliant with IEEE 802.3 standard

10/100 Mbps auto selection

MDI/MDIX Auto sensing

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## Section Two - Connect the Modem/Router

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### 2.1 This Package contents

1. One Ethernet ADSL modem
2. One RJ-45 straight cable
3. One RJ-11 telephone cable
4. 12V Power Adaptor
5. User's Manual & WinPoET CD
6. Micro Filter (optional)

*For any missing items, Please contact your dealer immediately.*



**(Optional)**

## 2.2 Product View



**LAN LED TX/RX LED LINK LED POWER LED**



**Power Switch**

**Power Connector**

**RJ45 LAN Jack**

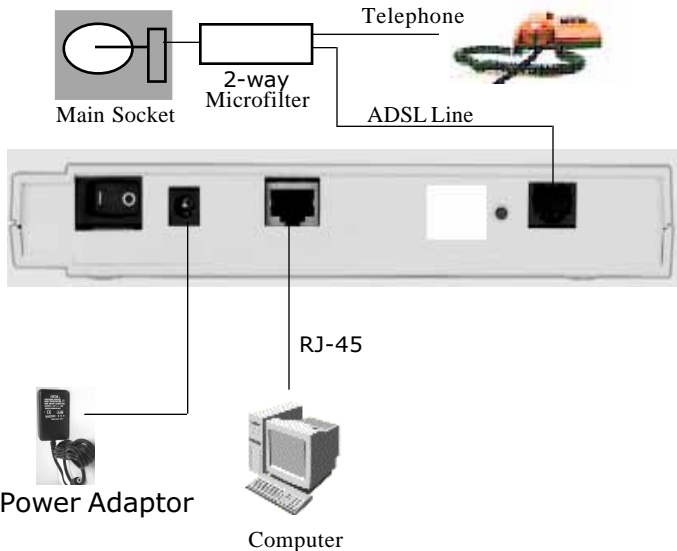
**RJ11 Line Jack**

**Reset Button  
(Set to factory Default)**

## 2.3 Hardware Installation

The following steps instruct you to install the Hurricane 9000/B for one computer.

1. Plug the end of the Ethernet cable into the LAN Jack of the Hurricane 9000/B.
2. Plug the other end of the Ethernet cable into your computer's RJ45 Jack of Ethernet card.
3. Connect the Power adaptor to the Power Connector.
4. Plug the telephone cable into the Line Jack .
5. Plug the other end of the telephone cable into
  - i) a Main Socket .
  - ii) **OR** the Jack of the two-way Microfilter labeled **DSL**.



## 2.4 LED Indicators

The ADSL Modem features LED indicators on the front panel that report modem status:

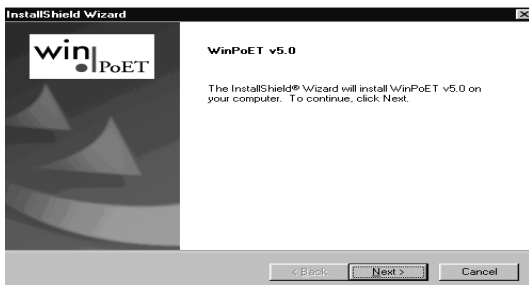
POWER	<b>Red</b>	Power Light / Steady when power is on.
LINK	<b>Green</b>	WAN Link / Steady during ADSL line status is showtime.
TX/RX	<b>Green</b>	WAN Activity / Blinking when transmitting/receiving data.
LAN	<b>Green</b>	LAN Link / Blinking during LAN Activity.

### 3. WinPoET installation

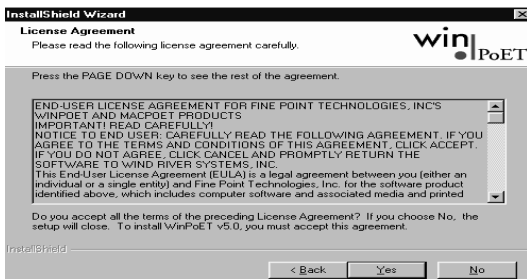
3.1 Put in the WinPoET CD to your CDROM drive. The CD should auto-run within seconds. If not, awake the setup manually:-

Start >> Run >> D:\Setup, Click OK

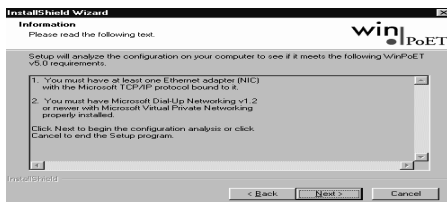
3.2 Click next to Continue.



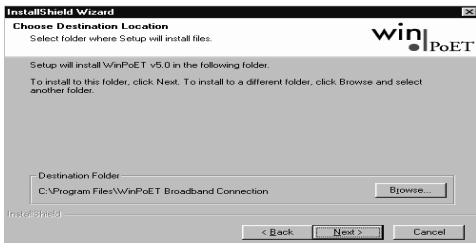
3.3 Click Yes to Continue.



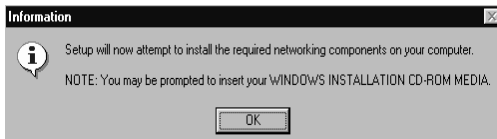
3.4 Click Next to Continue.



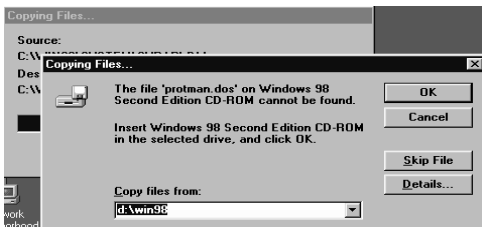
### 3.5 Click Nex to Contiuie.



### 3.6 Click OK.



### 3.7 If you are using Windows 98/SE, put your windows 98 CD to your CD-ROM Drive, refer to your Windows 98 CD. (e.g. D:\win98)



### 3.8 If the rebooting window appears, select "Yes" to restart your PC.



**3.9** After restarting your windows, the following icon will appear on the Desktop, double-click this icon.




**3.10** Please enter your used ID (e.g. prolink@singnet) and password to log on to the internet.



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**Please remember to log out and terminate after every session.**

1. Double click the Modem Connection icon  from system tray.
2. Click the **Disconnect** button.



## Section Three - How to check the Line Status

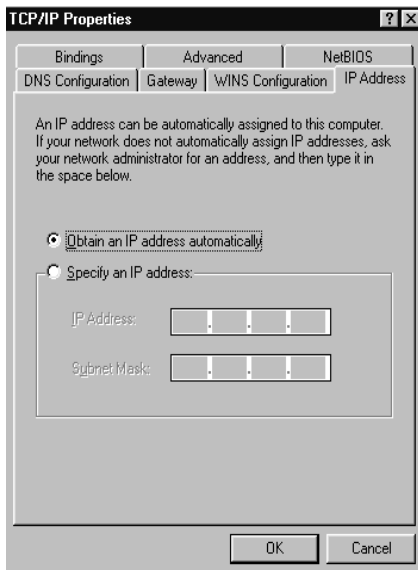
### 4.1 Configure your PC.

The instructions in this section will help you to configure each computer to communicate with the Router.

To do this, you need to configure your PC's network settings to obtain an IP address automatically from the DHCP of the router. Computers use IP addresses to communicate with each other across a network, such as the Internet.

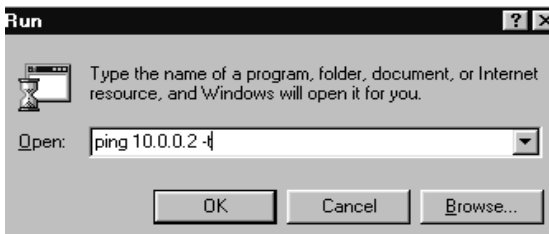
1. Go to the Network screen by clicking the **Start** button. Click **Settings and then Control Panel**. From there, double-click the **Network** icon.
2. On the Configuration tab, select the TCP/IP line for the applicable Ethernet adapter. Then, click the Properties button.
3. Click the **IP Address** tab. Select **Obtain an IP address automatically**.

4. Click the **Gateway** tab, and verify that the Installed Gateway field is blank. Click the OK button.
5. Click the **OK** button again. Click the Yes button to restart your computer.



## 4.2 Verify the link between your PC and Router

- a) From start > Run
- b) Enter ping 10.0.0.2 -t and click OK
- c) If the connection has been established, You will receive reply from the router.
- d) If you receive "Request timed out", that means the link has not been established, pls. check the network cable and IP address. (or try to restart your PC)



### Notes:

1. Under MS-DOS mode, you can type **ipconfig** to check your IP address. (to renew IP: ipconfig /renew )
2. You may have to disable the proxy settings on your Internet browser .  
Tools>Internet Options>Connection>LAN settings>Disable Proxy Server
3. Make sure that your browser is set to connect directly .

For Internet Explorer, click **Tools, Internet Options**, and then the **Connection** tab. Make sure that Internet Explorer is set to **Never dial a connection**.

For Netscape Navigator, click **Edit, Preferences, Advanced**, and **Proxy**. Make sure that Netscape Navigator is set to **Direct connection to the Internet**.

## 4.3 Login to Web-Based

- 1) Open Internet Explorer /Netscape , type <http://10.0.0.2>
- 2) The system will ask for administrator's username and password when restarting or configuring. It is illustrated in the following figure.


Default username: **admin**  
password: **password**



The image shows a login dialog box with a grey background. At the top, the text "Realm: Home Gateway" is displayed. Below this, there are two input fields: "User Name" containing the text "admin" and "Password" which is obscured by a blue rectangular box. Underneath the password field is a checked checkbox followed by the text "Save this password in your password list". At the bottom right of the dialog, there are two buttons: "OK" and "Cancel".

## 4.4 ADSL Line Status.

The **ADSL Line Status** page shows the ADSL physical layer status.

Address  http://10.0.0.2

**PROLINK**

Reboot Modem

**ADSL Line Status**

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Line State: **SHOWTIME**  
 Modulation: **G.dmt**  
 Annex Mode: **ANNEX\_A**  
 Startup Attempts: **1**  
 Max Tx Power: **-38 dBm/Hz**  
 CO Vendor: **ALCATEL\_NETWORK**  
 Elapsed Time: **0 days 0 hours 6 minutes 59 seconds**

	Downstream	Upstream	
SNR Margin	17.1	23.0	dB
Line Attenuation	50.8	31.0	dB
Errored Seconds	3	0	
Loss of Signal	0	0	
Loss of Frame	0	0	
CRC Errors	3	0	
Data Rate	3488	448	kbps
Latency	FAST	FAST	

## 4.5 Reboot Modem.

Click the Submit Button to reboot your modem

Address  http://10.0.0.2

**PROLINK**

ADSL Line Status

Click Submit Button to Reboot modem .

## 5. Troubleshooting and FAQs

### 5.1 **There is no light for Power LED. (No Power)**

- 1) Please check Power Switch whether it switches on.
- 2) Please check the Power plug

### 5.2 **Power LED and LAN LED light up, but the ADSL Link LED keeps blinking . (No ADSL Signal)**

- 1) Ensure that the ADSL line is activated.
- 2) Check that the Telephone cable (RJ-11) is connected to LINE Jack on your modem.
- 3) Try to turn off the modem, wait for at least ten seconds, then turn on again.
- 4) Try to take out all telephones connected to the ADSL line for testing.

If the problem still persists, please check with your ADSL Service Provider to confirm the line condition.

### 5.3 **Power LED and Link LED light up, but the LAN LED keeps off . (No LAN Signal)**

- 1) Check the RJ45 Network Cable connection
- 2) Check your LAN Card whether it's functioning.

### 5.4 **Power LED and LAN LED light up, but the ADSL Link LED keeps off. (Modem Faulty)**

- 1) Please contact modem vendor for servicing.

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## PROLiNK TECHNICAL SUPPORT

At PROLiNK, we are committed to give you the best products as well as the best technical support for installation of ADSL Bridge/Router. If there is virus in your system, we may provide suggestions like where you can find the solution to clean the virus, but we are unable to assist you until the virus is cleaned.

### Service Centre

#### Singapore

Tel: (65)62965455

Fax: (65)63925455

URL: [www.fida.com](http://www.fida.com)

Email: [support@fida.com](mailto:support@fida.com)

Address: Blk 105 Boon Keng Rd #06-13, Singapore 339776

**Operating Hours: Mon-Fri :0900-1730 hrs**

#### Malaysia

Tel: (603) 8024 9151

Fax: (603) 8024 9161

Email: [support\\_my@fida.com](mailto:support_my@fida.com)

Address:4-1,Gnd-Floor,Jalan USJ 9/5T,Subang Business Centre,47620  
Subang Business Centre, Subang Jaya, Selangor Darul Ehsan, Malaysia.

**Operating Hours: Mon-Fri: 0900-1730 hrs Sat: 0900-1300 hrs**