

BIPAC-7000 ADSL USB Modem

Quick Start Guide

Package Contents

- One Billion BIPAC-7000 ADSL USB Modem
- One installation CD with drivers and online manual
- One RJ-11 ADSL telephone cable
- One USB cable
- This Quick Start Guide

The Front Panel LEDs

LED	Meaning
USB	When this LED is lit, it indicates that the USB port is connected to the PC and working properly.
DATA	When this LED is flashing constantly, it indicates the BIPAC-7000 is transmitting/receiving data.
ADSL	When lit, it indicates that the ADSL (Line) port is connected to the DSLAM and working properly.

Information from ISP

Before start installing this device, you have to check with your ISP on what kind of service (connection method) is provided such as PPPoE, PPPoA, RFC1483 bridged or routed, IPoA.

Gather the information as illustrated in the following table and keep it for reference.

If your ISP provides PPPoE or PPPoA connection method, please select "Billion ADSL USB WAN Adapter" to install driver. If your ISP provides RFC1483 Bridged or Routed or IPoA, please select "Billion ADSL USB LAN Adapter" to install driver.

PPPoE	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password, Service Name, and Domain Name System (DNS) IP address (it can be automatically assigned from ISP or be set fixed).	
PPPoA	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password, and Domain Name System (DNS) IP address (it can be automatically assigned from ISP or be set fixed).	
RFC1483 Bridged	VPI/VCI, VC-based/LLC-based multiplexing	
RFC1483 Routed	VPI/VCI, VC-based/LLC-based multiplexing, IP address, Subnet mask, Gateway address, and Domain Name System (DNS) IP address (it is fixed IP address).	
IPoA	VPI/VCI, IP address, Subnet mask, Gateway address, and Domain Name System (DNS) IP address (it is fixed IP address).	

Installing Billion ADSL USB Modem

To Connect ADSL telephone cable to the LINE RJ-11 jack, connect the USB cable to the USB port and connect the other end to the PC.



For Windows XP:

1. Start Windows. After the opening banner, Windows will tell you that the new device has been detected. Select "Install from a list or specific location" and click "Next >".



2. Insert the installation CD into the CD-ROM drive and select "Include this location in the search". Click "Browse" to specify the driver directory such as F:\Driver\LAN for installing Billion ADSL USB LAN Adapter or F:\Driver\WAN for installing Billion ADSL USB WAN Adapter. (Please refer *Information from ISP* section for more details.) Click "OK" and then "Next>" to continue.





3. When windows titled "Hardware Installation" or "Software Installation" appears, click "Continue Anyway" to go on.



4. Then, click "Finish".



5. After Billion ADSL USB Modem driver is successfully installed, the Status Task Bar will appear on the System Tray.



For Windows 2000:

1. Start Windows. After the opening banner, Windows will show the new device has been detected. Click "Next>".

Welcome to the Found New Hardware Wizard This wizard helps you install a device driver for a hardware device.
To continue, click Next.

 Select "Search for a suitable driver for my device". Click "Next>". Then, insert the installation CD into the CD-ROM drive. In next window, check "Specify a location" and click "Next>" as shown on below.



 Click "Browse..". In the Locate File window, specify the driver directory such as F:\Driver\LAN\CxtCAFEU for installing Billion ADSL USB LAN Adapter or F:\Driver\WAN\CxtCAFEU for installing Billion ADSL USB WAN Adapter. (Please refer Information from ISP section for more details.) Click "Open" and then "Next>" to continue.

Locate File					<u>? ×</u>
Look in:	🔁 Lan		•	🗢 🗈 💣 📰 •	
History Desktop My Documents	B CxtCB00U.inf				
	File name:	CxtCB00U.inf		•	Open
My Network P	Files of type:	Setup Information (*.inf)		Ţ	Cancel

4. When windows titled "Digital Signature Not Found" appears, click "Yes" to continue the installation.

٩	The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
	The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
	BIPAC-7000 ADSL USB LAN Adapter
	If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
	Do you want to continue the installation?

5. Press "Finish".



6. After Billion ADSL USB Modem's driver is successfully installed, the Status Task Bar will appear on the System Tray.



For Windows Me:

 Start Windows. After the opening banner, Windows will tell you that the new device has been detected. Select "Specify the location of the driver" and click "Next >".

	Windows has found the following new hardware: ADSL USB MODEM
	Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.
🗞 🌫	What would you like to do?
<u></u>	C Automatic search for a better driver (Recommended)
\$	 Specify the location of the driver (Advanced)
	< Back Next > Cancel

2. Insert the installation CD into the CD-ROM drive and check "Specify a location". Click "Browse..." to specify the driver directory such as F:\Driver\LAN for installing Billion ADSL USB LAN Adapter or F:\Driver\WAN for installing Billion ADSL USB WAN Adapter. (Please refer *Information from ISP* section for more details.) Click "OK" and then "Next>" to continue.

	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected
	 Search for the best driver for your device. (Recommended).
	🔲 Removable <u>M</u> edia (Floppy, CD-ROM)
	 Specify a location: Browse Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack Next> Cancel

s device.	
😟 🗃 Data2 (E:)	
😟 📻 Data3 (F:)	
🖻 🧟 Bipac-7000 (G:)	
Linux	
Mac	
🗖 🦳 Windows	
Wan	
Printers	
Control Panel	
Dial-Up Networking	

3. Continuing through the Wizard, Windows will start copying files to your system. Then, click "Finish".

Add New Hardware Wiz	PIPAC 7000 ADCL LICE Meders Interface
	Windows has finished installing the software that your new hardware device requires.
80 (S) • • • •	
*	
	Kellack Finish Cancel

4. After Billion ADSL USB Modem driver is successfully installed, the Status Task Bar will appear on the System Tray.



For Windows 98:

1. Start Windows. After the opening banner, Windows will tell you that the new device has been detected. You will then see the following screen. Click "Next >".

Add New Hardware Wiz	zard
	This wizard searches for new drivers for:
	ADSL USB MODEM
	A device driver is a software program that makes a hardware device work.
8.0	
\$	
	< <u>B</u> ack Next> Cancel

2. In the next window, select "Search for the best driver for your device" and click "Next >".

Add New Hardware Wi	zard
	What do you want Windows to do? Search for the best driver for your device. [Recommended]. Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack Next > Cancel

3. Insert the installation CD into the CD-ROM drive and check "Specify a location". Click "Browse..." to specify the driver directory such as F:\Driver\LAN for installing Billion ADSL USB LAN Adapter or F:\Driver\WAN for installing Billion ADSL USB WAN Adapter. (Please refer *Information from ISP* section for more details.) Click "OK" and then "Next>" to continue.

Add New Hardware Wiz	zard
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search. Eloppy disk drives D-ROM drive Microsoft Windows Update Specify a location: Browse
	<back next=""> Cancel</back>



4. Continuing through the Wizard, click the "Next >" button. Windows will start copying files to your system.

Add New Hardware Wiz	ard
	Windows driver file search for the device:
	BIPAC-7000 ADSL USB Modem Interface
	Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
🛛 🥸 📚 🛛	Location of driver:
	< <u>B</u> ack Next> Cancel

5. Then, click "Finish".



6. When Billion ADSL USB Modem driver is successfully installed, the Status Task Bar will appear on the System Tray.



For Mac OS 9:

If you connect the ADSL Modem/Router through USB port, for the first time the USB cable is connected to the PC, the host PC OS will automatically detect the device. Follow the steps to install the USB driver.

1. When PC tells you that the new device has been detected, insert the installation CD into the CD-ROM drive. Click the driver installer. The following directory will be created.



2. Click "Install".

	Copy to "USB ADSL"	
	Items remaining to be copied:	1
l		Stop
	Time remaining:	

3. Click "Restart" to end the installation.

Installation of USB ADSL is completed. To complete installation you need to restart your computer now.				
Restart I will restart later				

For Mac OS X:

1. Insert the installation CD into the CD-ROM drive, click the driver installer.



2. Input the user name and password of your Mac system.

000	Install USI Auth	8 ADSL driver enticate
Introductio Select Dest Installation Installation		that you type your passphrase.
Finish Up	Name: Password or phrase:	
A	 Details ? 	Cancel OK
		Co Back Continue

3. Click "Continue".

000	Install USB ADSL driver			
	Welcome to the USB ADSL driver Installer			
e Introduction • Select Destination • Installation Type • Installation • Installation Type • Installation Typ	Welcome to the Mac OS X Installation Program. You will be guided through the steps necessary to install this software.			
	Co Back Continue			

4. Select a destination to install the driver, choose Mac X.

000	Install USB ADSL driver					
Select a Destination						
Introduction Select Destination	Select a destination disk to install the USB ADSL driver software.					
Finish Up	MAC OS 9.2.1 1.1CB (323MB Free) MAC OS X 1.9CB (187MB Free) Installing this software requires 2.6MB of disk space. You have selected to install this software on the disk "MAC OS X."					
	Co Back Continue					

5. Click "Continue".

000	Install USB ADSL driver			
	Easy Install			
Ontroduction OSelect Destination OInstallation Type Installing Finish Up	Click Install to perform a basic installation of this software package.			
	Customize Go Back Install			

6. Click "Continue Installation" to end the installation.



For Linux Redhat 7.1/7.2/8.0/9.0:

- 1. Install the driver
 - (Redhat 7.1) #rpm –i BIPAC-7000-REDHAT-7.1.i386.rpm (Redhat 7.2) #rpm –i BIPAC-7000-REDHAT-7.2.i386.rpm (Redhat 8.0) #rpm –i BIPAC-7000-REDHAT-8.0.i386.rpm. (Redhat 9.0) #rpm –i BIPAC-7000- REDHAT-9.0.i386.rpm.
- 2. Launch the driver

#cd /usr/local/e2
#insmod e2.o
#ifconfig hsb0 up(Note: run this command after the READY LED
blinks)
#dhcpcd hsb0 (Note: run this command after the READY LED
blinks)

3. Uninstall the driver #rpm –e USBENDPOINT

After your installation, please edit this file **/etc/rc.d/rc.local** to append four commands.

cd /usr/local/e2 insmod e2.o ifconfig hsb0 up ./dhcpcd hsb0 Then PC will get an IP address after reboot from ADSL

USB device automatically.

Configuring Billion ADSL USB Modem

(For Windows)

 Click Billion ADSL USB Modem icon in the Control Panel or ADSL Configuration icon on the desktop. The status of ADSL connection will be displayed.

	-	* 🔊	
	<u>د</u>	Line Down	
ADSL Connection In	formation		
Bytes Received:	0	Bytes Transmitted:	0
Receive Rate:	0 kbits/s	Transmit Rate:	0 kbits/s
Driver S/W Version:	29072.099.08	30.000	Clear

2. Press [Alt]+[P] on keyboard, the following widow will appear.

Connection	n l	Line Setup	F	Protocol Setup	ATM OA	M Loopback
General	ATM Lin	k Statistics	AA	L Link Statistics	Physical L	ayer Statistic:
- ADSL Line	Informati AD	on SL ATM	AAL	Rate		
Recei	ve 🧧			0 kbits/s	VPI =	0
Transi	mit 🧧			0 kbits/s	VCI =	32
Call Stat	oting to A	ctivate Line		ADSL Mo	dulation U	ndefined
Encapsu Bridge	ulation Mo d IP over	ode ATM LLCSI	NAP (R	FC1483)		
Bi	llic	m_		Driver S/W \	/ersion: 29072	2.099.080.000
			0.7.5			

3. Select the **Protocol Setup** tag, please set the value of "VPI", "VCI" and "Encapsulation Mode". Then, click "OK".

alonoral prin	TM Link Statistics	AAL Link Statistics	Physical Layer Statistic:
Connection	Line Setup	Protocol Setup	ATM OAM Loopback
ATM Virtual	Circuit Identification -		
		Virtual Circuit 0	Virtual Circuit 1
Virtua	l Path Identifier (VPI)	0	8
Virtual	Circuit Identifier (VCI)	32	43
- Maximum I	Packet Length		
Beasive	Transmit	Paals Call Pata (P)	D) Line Date V
neceive	1500	reak cell hate (ri	
11500	1500		
1500			
1500			

(For Mac OS 9/X and Linux Redhat 7.1/7.2)

The ADSL USB Modem uses "Emulate USB port to Ethernet" technology to emulate USB port to Ethernet port for Mac and Linux system. The ADSL USB Modem can be configured with your web browser. The default IP address of the ADSL USB Modem is 192.168.1.254 and subnet mask is 255.255.255.0.



To configure this device, you must have IE 5.0 / Netscape 4.5 or above installed.

- 1. Open web browser and type http://192.168.1.254 in the browser's address box. This number is the default IP address for this device. Press Enter.
- 2. A user name and password prompt will appear. There is two-level password protection. The first level is for administrator. The username is **admin** and password is **password**. The second level is for user. The username is **user** and the password is **password**. Please modify these passwords for security reason.

work Passwo	rd ? X
Please type yo	ur user name and password.
Site:	192.168.1.254
Realm	Home Gateway
<u>U</u> ser Name	
<u>P</u> assword	
\square Save this p	bassword in your password list
	OK Cancel
	work Passwo Please type yo Site: Realm User Name Password Save this p

Open your Web browser to begin surfing the Internet.



For more detailed instructions on configuring and using the product, please refer to the on-line manual.

For Billion ADSL USB LAN Adapter:



This section is described based on Windows 2000 / XP. For other Operating Systems such as Windows 98 / Me, please refer to the on-line manual for more detailed instructions.

- 1. Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and Dial-up Connections.
- 2. Right–click on Local Area Connection that is using the Billion ADSL USB LAN Adapter and then click "Properties".

Pretwork and blar up connect	ions	5		- 🗆 🗙		
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	Tool	s Adva <u>n</u> ced	Help	1		
🔄 🕁 Back 🔹 🔿 👻 🔂 🧟 Sear	rch	Folders	History	Per »		
Address 📴 Network and Dial-up C	Address 🔃 Network and Dial-up Connections 💽 🔗 Go					
Network and Dial- up Connections		Make New Connection	Local Area Connection			

3. Select Internet Protocol (TCP/IP). Then click "Properties".



4. Select Use the following IP address, and then enter the "IP address", "Subnet mask", and "Default gateway" provided by your ISP.

Select **Use the following DNS server addresses,** and then enter the provided DNS server IP address.

ou can get IP settings assigned iis capability. Otherwise, you ne ie appropriate IP settings.	automatically if your network supports ed to ask your network administrator for
Obtain an IP address auton Use the following IP address	natically
IP address:	142.100.0.60
Subnet mask:	255.255.0.0
Default gateway:	142.100.0.1
C Obtain DNS server address	automatically
Use the following DNS service	ver addresses:
Preferred DNS server:	142.100.0.1
AH 1 DNIC	
Alternate DNS server:	

For Billion ADSL USB WAN Adapter:

 Click ADSL Easy Dialup icon on the desktop. The following window should appear. Enter the "<u>U</u>sername" and "<u>P</u>assword" provided by your ISP. Let the Phone number field be blank.

e Connect To		? X
Been ads	3L Easy Dialup	
<u>U</u> ser name:	guest	
Password:	*****	_
	Save password	
Phone <u>n</u> umber:		
Dialing from:	New Location	Dial Properties
	Connect	Cancel

2. Click Connect and get ready to surf the Internet!

Product Support and Contact Information

Most problems can be solved by referring to the **Troubleshooting** section in the User's Manual. If you cannot resolve the problem with the **Troubleshooting** chapter, please contact the dealer where you purchased this product.

Contact Billion

AUSTRALIA

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WORLDWIDE

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