Instant Broadband<sup>™</sup> Series

# **ADSLUSB Modem**



Use this guide to install the following:

Model No.: USBDSL1



#### **Package Contents**



- Instant Broadband<sup>™</sup> ADSL USB Modem
- One USB Cable
- One Setup CD-ROM
- One User Guide and Registration Card
- One RJ-11 Telephone Wire (not shown)

#### **System Requirements**

- Windows 98, 2000, or Millennium
- 300+ mHz Pentium II CPU or compatible system
- ADSL Internet service
- CD-ROM drive

Note: The ADSL USB Modem will not run under Windows 95 or Windows NT.

# Getting to Know the ADSLUSB Modem

#### Overview

Asymmetric Digital Subscriber Line (ADSL), the most popular residential DSL technology, provides high-speed Internet access over regular, copper phone lines by maximizing bandwidth use. In this way, ADSL Internet service can coexist on the same line as your phone service, without disrupting calls. ADSL is "asymmetric" because it downloads, or receives data, faster than uploads it is transmitted. Asymmetric operation is ideal for home and small office use where files and information are downloaded more frequently than uploaded.

There are several standard types of ADSL modulation techniques, including Discrete Multitone (**DMT**). Your ADSL USB Modem supports the following DSL standards: ANSI T1.413 Issue 2, ITU G.992.1 (**G.DMT**) and ITU G.992.2 (**G.lite**).

#### The USB Icon

The USB icon shown below marks a USB port on a PC or device.



To use this USB device, you must have Windows 98, 2000, or Millennium installed on your PC. If you do not have Windows 98, 2000, or Millennium, this device will not work.

Also, this device requires that a USB port is installed and enabled on your PC. Some PCs have a disabled USB port. If your port doesn't seem to be working, there may be motherboard jumpers or a BIOS menu option that will enable the USB port. See your PC's user guide for details.

Some motherboards have **USB interfaces**, but no ports. You should be able to install your own USB port and attach it to your PC's motherboard using hardware purchased at most computer stores.

## The ADSL USB Modem's Rear Panel Ports



- **USB** Port Use this port to connect the USB cable from your PC to your modem.
- ADSL Port This port connects your modem to your ADSL line.

#### The ADSL USB Modem's Front Panel LEDs ADSL This LED will light up when an ADSL connection is made. It will also flicker when indicated Service ADSL USB Modem an ADSL connec-Model No. DESKERT tion is being made. INKSYS The Power LED Power will light up green the modem has successfully connected to your PC and the modem's power is on.

# Connecting the ADSLUSB Modem to Your PC

### Installing the ADSL USB Modem

- 1. **Plug the rectangular end of the USB cable** into your PC's USB port. Connect the square end of the USB cable into the Modem's USB port. A green **Power** LED will light up, indicating that the modem has been succesfully connected to your PC and that its power is on.
- 2. **Connect a standard phone cable** from the DSL outlet to the DSL port on the ADSL USB Modem.

#### Your hardware installation is now complete.

## Installing the Modem Driver for Windows 98

Windows 98 will automatically detect the ADSL USB Modem once it is connected to the PC. Before the hardware can function properly with your PC, a Windows 98 driver for the ADSL USB modem must be installed.

- 1. Insert the Setup CD into your CD-ROM drive.
- 2. When the "Add New Hardware Wizard" window appears, make sure that the Setup CD is in the CD-ROM drive and click **Next**.



3. Select "Search for the best driver for your device" and click Next.



4. Select *CD-ROM drive* as the location where Windows will search for the driver software and click **Next**.

Add New Hardware Wi:	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
🎭 😞	Microsoft Windows Update
	Specify a location:
<ul> <li>Image: A set of the set of the</li></ul>	Browse
	< <u>B</u> ack Next > Cancel

5. Windows will notify you that it is ready to install the driver. Click Next.

Add New Hardware Wiz	ard
	Windows driver file search for the device: Linksys USB ADSL Modem 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: D:\CXTCAFEU.INF
	< <u>B</u> ack Next> Cancel

6. After Windows has completed installing this driver, click Finish.



Your Windows 98 driver installation for the ADSL USB Modem is now complete.

#### Installing the Modem Driver for Windows Millennium

1. Start up your PC in Windows Millennium. Windows will detect new hardware connected to your PC.



2. When Windows asks you for the location of the best driver, select "Automatic search for a better driver (Recommended)" and click Next.



#### ADSL USB Modem

3. Windows will notify you that it has found the driver to install for your modem. Click **Next** to install the driver.



4. When Windows finishes installing the driver, click Finish.



5. If Windows asks you for the location of Windows Millennium files, direct your PC to the location of the files and click **OK**.



Your driver installation for Windows Millennium is now complete.

#### ADSL USB Modem

#### Installing the Modem Driver for Windows 2000

Windows 2000 will automatically detect the ADSL USB Modem once it is connected to the PC. Before the modem can function properly with your PC, you must first install a Windows 2000 driver for the modem.

1. Insert the Setup CD into the CD-ROM drive. Windows will notify you that it has detected new hardware.



2. When the "Found New Hardware Wizard" screen appears to confirm that the ADSL USB Modem has been connected to your PC, make sure the Setup CD is in the CD-ROM drive and click **Next**.



3. Select "Search for a suitable driver for my device" and click Next.

und New Hardware Wizard	
Install Hardware Device Drivers A device driver is a software program that an operating system.	enables a hardware device to work with
This wizard will complete the installation fo	r this device:
ADSL USB MODEM	
A device driver is a software program that needs driver files for your new device. To l installation click Next.	nakes a hardware device work, Windows ocate driver files and complete the
What do you want the wizard to do?	
Search for a suitable driver for my d	evice (recommended)
<ul> <li>Display a list of the known drivers for driver</li> </ul>	r this device so that I can choose a specific
	< <u>B</u> ack <u>N</u> ext> Cancel

4. Windows will now search for the driver software. Select *CD-ROM drives* and click **Next**.

ound New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
ADSL USB MODEM
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy <u>d</u> isk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< <u>B</u> ack <u>N</u> ext> Cancel

#### ADSL USB Modem

5. Windows will notify you that it is ready to install the driver. Click Next.

Driver The	Files Search Results e wizard has finished searching for driver files for your hardware device.
The	e wizard found a driver for the following device:
	ADSL USB MODEM
Wir	adows found a driver for this device. To install the driver Windows found, click Next.
	d'\cxtcafeu.inf
	< <u>B</u> ack <u>Next&gt;</u> Cancel

6. When Windows has completed installing the first driver, click Finish.



7. When Windows will ask you to search for a digital signature, click **OK** to finish your installation.



Your Windows 2000 driver installation for the ADSL USB Modem is now complete.

### **Configuring Your ADSL USB Modem**

Now that your installation is complete, you are ready to use your ADSL USB Modem's Configuration program. The configuration is modified through the *Linksys ADSL USB Adapter Properties* screen. You may access this screen one of two ways:

1. Right click on the **Modem Icon** in the system tray (the area next to the clock) as pictured here.



After right clicking, choose the **Properties** option. The following screen will appear.

-ILinks	ys ADSL USB	Modem	×
2	ADSL Connecte Bytes received:	id 25,968	Stop ADSL
	Bytes sent:	9,456	

When this screen appears, enter <**Alt**>+**A**. The following screen will appear.

-SLinks	ys ADSL USB Modem	×
2	ADSL Connected Bytes received: 25,968 Bytes sent: 9,456	Stop ADSL
	Toolbox	Configuration Wizard

Click on the **Advanced Monitoring** button and the *Linksys ADSL USB Adapter Properties* screen will appear.

 Or, the same screen may be accessed through the Control Panel by going to Start, Settings, Control Panel, and click on the Linksys ADSL USB Modem icon, shown below.



3. The *Linksys ADSL USB Adapter Properties* window will appear, displaying your current data packet information and whether your DSL connection is up



4. Press **<Alt>+A** to display the Properties window below. The "General" tab on this screen displays information about your modem connection.

-	6	
ADSL Connec	tion Established	
Inmation		
5,968	Bytes Transmitted	9,496
536 kbits/s	Transmit Rate:	120 kbits/s
5.1.2.006 (4000	1	Clear
	ADSL Connect formation (5:969 (5:36 kbits/s 5:36 kbits/s	ADSL Connection Established formation (5:399 Bytes Transmitted) (5:36 kbits/s Transmit Rate: 5:1.2:006 (4600)

5. Click on the **ATM Link Statistics** tab to display the status of your ATM connection.

AutoLog Co	ATH DAM Los ATH Link Statution	sphack TCP/
orreita	Receive	Tiatuni
Bytes	28,779	10.547
Celle	543	199
Cells/Second	a a	0
Management Cells	0	2
CLP+0 Celts	543	199
CLP=1Cells	0	0
Urroutable Celle	0	
		Des Al
	or 1	court I an

6.Click on the **AAL Link Statistics** tab to display information about your AAL Adaption Layer.

General A	The I link Strategies	Add Line State	dire.
onen 1 A	Песене	Transmit	
Good Bytes	25,968		9,456
Good Framer	24		74
Total Discarded Bytes	1 36	1	0
Total Discarded Frames	1	5	0
CRCEmon	1		
Invalid Length Errors	0		
Timeout Enors	a a		
AAL Type	0		
		Clear	-

7. Click on the **AutoLog** tab to display logging activity. Click on **Enable AutoLog Tool** to activate this feature.



8. Click on the **Connection** tab to display information about what features are enabled when connecting to your provider.

General	ATM Link	Statistics	ANL LA	nk Shellatice
AutoLog	Connection	ATH DAI	H Loepback	TCP/
ADSL Connection				
Modulation = G.dn	6			
	Vend	bi:	Version:	FEDORE
Near End	PairGain Teo	hnologies	2.	21.1
Far End	PairGain Teo	hnologies	2	
and a second			200	1.177N
		privean.	Down	stream:
Latency Mode				
Interleave Depth		NA.	N	A
Network Connection	m			
V91 = 0		VD = 35	PC	H + Line Re
Photocol = Evidged	IP OVER ATH LLD	SMAP (RECTA	4831	
Driver MAC Addres				
Ourie	nt a constant of		EEprom	0000000
00-20-10-0	0-DE-C3	1	00-20-10-00	-DE-C3

9. Click on the **ATM OAM Loopback** tab to manage the OAM Loopback functions of your modem.

General	ATM Link Statistics	ANI, Link Statistics
AutoLog Corv	ATH DAH Los	pback TCP/
Loopback Cells		
Transmitted	Received	Enors
0	a	a
Type F4 End-to-End	Vii	a l
Type F4 End+o-End	×a I	B
Type  F4 End+o-End  dentification	× [	E .
Type (F4 End+to-End dentification Source ID		E D
Type [F4 End+to-End Identification Source ID		0
Type F4 End+to-End Identification Source ID		<u>a</u>
Type F4 End-to-End Identification Source ID Max. Response Time	Location	<u>a</u>
Type F4 End-to-End Identification Source ID Max. Response Time 2000 m		D Start Loopback

10. Click on the **TCP/IP** tab to display information about your TCP/IP properties and configuration.

General ATM Lk	A Statistics ANI, Link Statistics
eutolog   Connection	ATH USPI LOUDDACK
CP/IP Properties	
Device	
DHDP Server	
Delugar	
Denaula Calaborray	
Current IP Address	
DHCP	
Lease Obtained	
Lease Explore	
	Reloase Resou

11. From the *Linksys ADSL USB Adapter Properties* screen, press **<Alt>+C** to display the Properties window below. The **Protocol Setup** tab on this screen allows you to change your protocol configuration.

THE PROPERTY OF THE READER		
	Virtual Circuit 0	Virtual Circuit 1
Virtual Path Identifier (VPI)	8	1 1
Vistual Circuit Identifier (VCI)	35	43
Encapsulation Mode Bridge Maximum Packet Length	d IP over ATM LLCSNAP	(RFC1483) 🗾
Encapeulation Mode Bridge Maximum Packet Length Receive Transmit 1500 [1500	d IP over ATM LLCSNAF Peek Cell Rate (PCR)	(RFC1483)

12. Press <Alt>+P from the Linksys ADSL USB Adapter Properties screen to display the Properties window below. As you will notice, this screen contains many of the tabs discussed earlier. The General tab displays more detailed information about your modem connection.

Linkops APSL USB Wadow LAN Adapter	
Autour Convention Live Integrate Protocol Servey Alter Child Longitude Entered Physical Leve Installar ACSL Line Information	ATH Statement Att. Statement HAL Degreenter TOPOP ATH List Statement
401, 134 ML Par- Peorle 2 28 18 18 18 18 18	10+3
Give Datus ADD, Convention E-datament	200491
Califield Addition	i.ex
Exception Rock Respect? over 424 ULCOMP (MC2480)	
(here 1	UN-Venior 9.1.2.084400
	DX Less Help

13. Click on the **Physical Layer Statistics** tab to display your general power usage information.

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Alternative-	11.5 m	-115.45	
BLPs/iam	-	100	
OPE Dem	1 3		
FECIERON			
HECOM	1		
To Provent	(2.ds		
PkPolet			
Statup Strengto	1		

14. For information on each of the following tabs, refer to the pages of this guide indicated below:

ATM Link Statistics - page 17 AAL Link Statistics - page 18 Protocol Setup - page 21 ATM OAM Loopback - page 19 TCP/IP - page 20 Conection - page 18 AutoLog - page 17

15. Click on the **HAL Diagnostics** tab to obtain information about the average send and receive rates of your modem.

194 Medican Abria	terior part terior
Last To Russ	Las Rollins Las Results
lanation	Senie Corry Jule 15 Upon Jule 15 Upon
	I Declares

16. Click on the **Line Setup** tab to setup or change the ADSL's operational mode.

in outside	(Automatic, 173 Guider) or Giller performed	3
Wang Selection	[Automatic	3
APOLINANCIA	Selemat-Varder	3
AltCHedtelty	Auripeak	-
	-	Auge

17. Click on the **ATM Statistics** tab to give information about your current ATM statistics.

	0.	-	Own	-	0	-
	[VCR	-	NC1	-	(int	-
f ellater	-	10.40	-	hude	-	18.543
T+Cell	-	1.97	_	hudd	-	196
Tx Calls/Second	-	- 1	-	hude	-	10
TxHpeCall	-	. 1	_	head	-	
TrOP-00m	-	102	-	helde		t Si
TxCUP+T Calls	-	_	_	is-sic	-	- 6
To Date:	-	31.75	-	held	_	20.77
A-04	-	50	-	budit	-	543
R-DA/Secret	-	- 1	-	brake	-	
Ruthger Deb	-	- 1	-	huik	-	
Auto-Auto-A	-	Sc.	-	10.00	-	54.
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	1					
References	-	NA.		Do BC	-	- 6
PerCel Algoriert Error	1	N.A.	1	Prodect		- 10
Re/Umsunitike Delle		NA.		hysic		6

18. Click on the **AAL Statistics** tab to display information about your current AAL statistics.

	Dan	-	Dave	-	Clare	-
To Root Ryme	-	1.05	-		-	1.05
To Bood Premer	-	18	-	head	-	18
1s TetalOscode/Upes	-	6	-	head	F	6
To Tutal Decoded Ranas	-	6	-	hyaid	-	6
To Canad Dates	-	336	-	-	-	235
Pix Good/Names	-	28	-	head	<u> </u>	28
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Palmold Lengt-Error	-			helder	-	- 40
fa Tenenul Erren	-	-	1	head	-	- 6
ANL Type	-	-		head	-	8.6
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# Troubleshooting

# **Common Problems and Solutions**

This section offers solutions to common issues that may occur during the installation and operation of your ADSL USB Modem.

#### 1. Which protocols might I need to use with my ADSL USB Modem?

- Refer to the documentation or manual provided by your ISP for details. The protocol required in your configuration depends on the equipment used by your DSL service provider. There are several possibilities:
  - a. **Point-to-Point Protocol Over ATM (PPPoA)** (RFC 2364) PPP provides session setup, user authentication (login), and encapsulation for upper-layer protocols such as IP (Internet Protocol). The use of PPP makes the modem appear as a dial modem to the operating sys tem. Dial-Up Networking is used to establish a connection. PPP is supported by either the WAN (Wide Area Network) driver or the ATM driver.
  - b. **Bridged/Routed Ethernet/IP over ATM** (RFC 1483) This protocol makes the modem appear as a local area network (LAN) device to the operating system.
  - c. **Point-to-Point Protocol Over Ethernet** (PPPoE) (RFC 2516) PPP provides session setup, user authentication (login), and encapsulation for upper-layer protocols such as IP (Internet Protocol). PPP makes the modem appear as a dial modem to the operating system. Dial-Up Networking is used to establish a connection. The protocol must be supported by WinPoet or Enternet 300 logon software on the RFC 1483 driver.

# 2. Installing the driver software resulted in unexpected errors or warnings.

Uninstall the ADSL USB Modem driver by doing the following:

- a. Go to **Start**, **Settings**, **Control Panel**, and click on **Add/Remove Programs**.
- b. Highlight Linksys ADSL USB Modem.
- c. Close the Control Panel window, and remove the program.



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