# **D-Link Quick Installation Guide**

This product works with the following operating system software: Windows XP. Windows 2000, Windows Me, Windows 98se



# **DWL-650**

D-Link Air™ Wireless Cardbus Adapter

### **Before You Begin**

You must have at least the following:

- A laptop computer with an available 32-bit Cardbus slot
- At least a 300 MHz processor and 32 MB of memory
- Cardbus Controller properly installed and working in the laptop computer
- An 802.11b Access Point (for Infrastructure Mode) or another 802.11b wireless adapter (for Ad-Hoc; Peer-to-Peer networking mode.)

# Check Your Package Contents

These are the items included with your DWL-650 purchase:



If any of the above items are missing, please contact your reseller.

### Insert the D-Link CD-ROM **Into Your Computer**

Turn on the computer and Insert the D- Link Air DWL-650 Driver **CD** in the CD-ROM drive

The step-by-step instructions that follow are shown in Windows XP. The steps and screens are similar for the other Windows operating systems.

Do NOT install the DWL-650 Cardbus Adapter into your computer before installing the driver software on the **D-Link CD!** 

subject to change without notice. DWL-650. 08092002

1 Insert the D-Link CD (continued)

The Install Screen will appear.



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**Click Next** 

Destination Folder E.\Program Files/D-Link Air

Bowie.

Cancel

Next >



#### Shut down your laptop



# Insert the DWL-650 Into the Cardbus Slot in Your Laptop

- A. Make sure your laptop computer is turned off.
- B. Locate the Cardbus slot on your laptop computer.



**C.** Gently insert the DWL-650 into the Cardbus slot in your laptop computer (as shown.)



**Built-in Antenna** Used to wirelessly connect to 802.11b) networks.

32-bit connector This is the connector that fits into the Cardbus slot of your laptop.

**Power LED** Lights to indicate that the DWL-650 is properly inserted.

Link/Activity LED Blinks when data is being transmitted through the wireless connection.



### **Restart Your Laptop Computer**

When you restart your computer this Found New Hardware Wizard (Windows XP) screen will appear:



# Found New Hardware Wisard





# **Restart Your Laptop Computer (cont.)**



may appear.

Select Yes to finalize the installation





### Your Installation is Complete!

After you've continued in Windows XP (or after the computer restarts in the other Windows operating systems), the D-Link Air DWL-650 Configuration Utility will automatically start and the utility icon will appear in the bottom right hand corner of the desktop screen (systray). If this icon appears GREEN, then you have successfully installed the DWL-650, are connected to a wireless network and are ready to communicate!

Double-click the utility icon to 4:43 PM use the configuration utility com All Manuals Search And Down

If the utility icon does not appear, doubleclick the shortcut icon that has appeared on your desktop.



### APPENDIX

### Using the Configuration Utility

The **D-Link** *Air* **Configuration Utility** window will appear. By default, it will take you to the Link Info section.

A. Status: Displays the MAC Address of the Access Point that is associated with the DWL-650.

**B. SSID:** The Service Set Identifier is the name assigned to the wireless network. The factory SSID setting is set to **default**. **C. TxRate:** The default setting is 11 Mbps; however, TxRate settings are automatically determined by the DWL-650 depending on the distance from the access point.

Link Into	Status	Associated BSSID=00-40-05-DF-09-51				
Configuration	BSSID	testlab				
Encryption	Tx Rate	11	Mbps			
	Channel	6				
SiteSurvey	F-Link Qual	ity/Signal Stree	ngth <del></del>			
About	Link Qu	ality	100%	Signal Strength	100%	
	F Data Rate	-	-			
	Transmit		C Kbps	Receive 4	165 Kbps	
			100		dandarda	
			10			

**D. Channel:** Displays the channel information. By default, the channel is set to 6 and selection is automatically determined by the DWL-650. **E. Link Quality / Signal Strength:** Displays the Link Quality for the DWL-650 wireless connection to the access point. The Signal Strength represents the wireless signal between the access point and the DWL-650. The percentage coincides with the graphical bar. F. Data Rate: Graphically displays the statistics of data transmitted and received.

# Make changes to the DWL-650's factory settings by clicking on the Configuration menu.

G. SSID: The Service Set Identifier is the name assigned to the wireless network. The factory SSID setting is set to **default**. Make changes here to match the SSID on existing Wireless Router or Access Point.

H. Wireless Mode: The factory setting is set to Infrastructure. Ad-Hoc mode is used for peer-to-peer networking. I. Channel: By default, the channel is set to 6. Channel selection is automatically determined by the DWL-650 depending on the channel setting of the access point selected for association. To change the channel settings, the Wireless Mode must be set to Ad-hoc.

#### D D-Link Air

Link Info.	G SSID	default	
Configuration >>>	H Wireless Mode	Infrastructure	•
Encryption SiteSurvey	Channel	6	*
About	J Tx Rate	11 Mbps	
	K Preamble	Long Preamble	
	Power Mode	Continuous Access Mode	•
		Apply	Cancel
	-		

J. TxRate: You can adjust the transmission rate to get the best signal possible depending on your usage and your environment.

The preamble setting of the DWL-650 must match the preamble setting of the Wireless Router or Access Point in order to communicate on the network. K. Preamble: By default, D-Link Air Products are set to Long Preamble. The Preamble defines the length of the CRC block (Cyclic Redundancy Check is a common technique for detecting data transmission errors) for communication between the Access Point and wireless network adapters. High network traffic areas should use the shorter preamble type. L. Power Mode: By default, Power Mode is set to Continuous Access Mode. Continuous Access Mode — this default setting consumes the most power. Maximum Power Save — this setting consumes the least power. Power Save — this setting consumes a moderate amount of power.







### Checking the Wireless Connection

For Windows XP and 2000 Go to Start > Run > type cmd. A window similar to this will appear.

#### Type ping xxx.xxx.xxx.xxx.

where xxx is the IP address of the wireless router or Access Point, A good wireless connection will show the reply from the wireless router or access point.

For Windows Me and 98, Go to Start > Run > type command. A window similar to this will appear.

Type ping xxx.xxx.xxx.xxx. where xxx is the IP address of the Wireless Router or Access Point A good wireless connection will show the reply from the wireless router or access point.

• F:\WIND	00WS\System32\cmd.exe	- 🗆 ×
Microsoft (C) Copyr:	Windows XP [Version 5.1.2600] ight 1985-2001 Microsoft Corp.	<b>^</b>
F:\Documer	nts and Settings\lab4>ping 192.168.0.50	
Pinging 19	92.168.0.50 with 32 bytes of data:	
Reply from Reply from Reply from Reply from Reply from	m 192.168.0.50: bytes=32 time=5ms TTL=30 m 192.168.0.50: bytes=32 time=64ms TTL=30 m 192.168.0.50: bytes=32 time=3ms TTL=30 m 192.168.0.50: bytes=32 time=17ms TTL=30	
Ping stat: Packet Approximat Minim	istics for 192.168.0.50: ts: Sent = 4, Received = 4, Lost = 0 (0% loss te round trip times in milli-seconds: um = 3ms, Maximum = 64ms, Average = 22ms	s),
F:\Documer	nts and Settings\lab4>_	
腾 MS-DOS	S Prompt	_ 🗆 ×
Auto	• 🗈 🗈 🗗 🗛	
C:\WINDOW	VS\Desktop>ping 192.168.0.50	
Pinging 1	192.168.0.50 with 32 bytes of data:	
Reply fro	om 192.168.0.50: bytes=32 time<10ms TTL=30	
Reply fro Reply fro Reply fro	om 192.168.0.50: bytes=32 time<10ms TTL=30 om 192.168.0.50: bytes=32 time<10ms TTL=30	

oximate round trip times in milli-seconds: Minimum = Oms, <u>Maximum = \_Oms, Average =</u> \WINDOWS\Desktop>\_\_

### Troubleshooting

#### Q1: I cannot connect to the access point or wireless router.

A: Make sure that the SSID on the DWL-650 Cardbus Adapter is exactly the same as the SSID on the Access Point or wireless router.

#### Q2: The DWL-650 Power and Link lights are not on.

A: Check to see if the DWL-650 Cardbus Adapter is firmly inserted in the Cardbus slot of your laptop computer.

#### Q3: I am unable to access the Internet using the DWL-650.

A1: Check that the LED indicators for the broadband modem are indicating normal activity. If not, there may be a problem with the broadband connection.

A2: Check that the LED indicators on the wireless router are functioning properly. If not, check that the AC power and Ethernet cables are firmly connected.

A3: Check that the IP address, subnet mask, gateway, and DNS settings are correctly entered for the wireless adapter in that specific wireless network.

#### Q4: I forgot my Encryption key.

A: Reset the Access Point to its factory default settings and restore the DWL-650 Wireless Cardbus Adapter to the factory default settings.

Once properly installed the **DWL-650 Wireless Cardbus Adapter** will be able to connect to other 802.11b wireless adapters, routers and access points. The DWL-650 using its default wireless settings also connects to other **D-Link Air**<sup>™</sup> Wireless adapters, access points and routers (with the default settings) as soon as it is properly installed and active

When you have completed the steps in this *Quick Installation Guide*, your connected network should look similar to this:

For detailed explanations on Ad-Hoc, Infrastructure mode, Basics of Networking, filesharing and troubleshooting, please refer to the DWL-650 Manual on the CD included with the product.



## **Technical Support**

Software updates and documentation are available on the **D-Link** website.

**D-Link** provides free technical support for customers within the United States for the duration of the warranty period on this product.

U.S. customers can contact **D-Link** technical support through our web site or by phone.

D-Link Technical Support over the Telephone: (877) 453-5465 24 hours a day, seven days a week

D-Link Technical Support over the Internet: http://support.dlink.com email: support@dlink.com



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