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Introduction

Thank you for purchasing the *Action*tec USB Wireless Adapter. This USB Wireless Adapter is easy to use and easy to setup. If you are tired off all those messy wires just to connect a laptop to your Home network, then take your networking to the next level with the *Action*tec USB Wireless Adapter. You will be able to share files, printers and even your High-Speed Internet access, all without wires.

Package Contents

Make sure the following items came in this package:

- USB Wireless Adapter
- USB Cable
- Actiontec USB Wireless Adapter Installation CD-ROM
- This User's Manual and Quick Start Installation Guide

Minimum System Requirements

- One Pentium class computer, 200 Mhz or higher (preferably 300 Mhz or above)
- Microsoft Windows 98 Second Edition (SE), Microsoft ME, Microsoft 2000 installed

Contacting Technical Support

*Action*tec Electronics prides itself on making high-quality, durable, high-performance products. If you should need assistance, the *Action*tec Technical Support Department is available 6 am to 11pm Mon - Sun (Central Time), to provide professional support.



Actiontec Electronics, Inc. 760 N. Mary Avenue Sunnyvale, CA 94085

Phone: 1-719-884-8300 E-mail: techsupp@actiontec.com

Connecting the Actiontec USB Wireless Adapter

- 1. It will not affect the installation process if your computer is on or off. However, if your computer is off then after you have connected the USB Wireless Adapter, please be sure to turn on your computer.
- **2**. Insert the *Action*tec USB Wireless Adapter into the appropriate USB slot on either the front or the back of your PC.

Installing the Actiontec USB Wireless Adapter

For Windows 98

1. After you have installed the USB Wireless Adapter your computer will display an "Add New Hardware Wizard" screen. Click Next.

Add New Hardware Wizard			
	This wizard searches for new drivers for: USB Device A device driver is a software program that makes a hardware device work.		
	< <u>B</u> ack Next> Cancel		

2. In the next screen, select the option **Search for the best driver for your device** and then click the **Next** button.



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3. Please insert the *Actiontec USB* Wireless Adapter Installation CD into your CD-ROM drive. Select **CD-ROM Drive** and then click **Next**.



4. Your computer will locate the correct drivers named "AEIWLNIC.inf". Click **Next** to install the drivers.

Add New Hardware Wiz	ard		
	Windows driver file search for the device:		
	Actiontec USB 802.11b Wireless Adapter		
	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:		
	C:\windows\desktop\drivers\aeiwl		
	< <u>B</u> ack Next > Cancel		

5. The USB Adapter's properties screen will appear. (Note: The "SSID" must be the same as the "ESSID" on your Home Gateway or Access Point.) Click **OK** to complete the installation process.

Actiontec USB 802.11b Wireless Adapter Properties	? ×
Driver Type Bindings Advanced Configuration Encryp	otion
Profile: Default	
Mode: Infrastructure	
<u>s</u> sid: Any	
Iransmit Rate: Fully Automatic	<u>D</u> efaults
Power Save Enabled	Undo
AdHoc Channel: 11 🚊	Apply
OK	Cancel

6. The installation is now complete. Please click Finish .



6)

7. It will be necessary for you to shut down your computer. Please click **OK** to restart your computer. If this screen does not appear please restart your computer manually.



Windows ME

8)

1. After you have installed the USB Wireless Adapter your computer will display an "Add New Hardware Wizard" screen. Click **Automatic search for a better driver** (**Recommended**). Then click the **Next** button.



2. The USB Adapter's properties screen will appear. (Note: The "SSID" must be the same as the "ESSID" on your Home Gateway or Access Point.) Click **OK** to complete the installation process.

<u>D</u> efaults
Undo
Apply
Cancel

3. The installation is now complete. Please click Finish.



4. It will be necessary for you to shut down your computer. Please click **OK** to restart your computer. If this screen does not appear please restart your computer manually.

System S	Settings Change			
?	To finish setting up your new hardware, you must restart your computer.			
4	Do you want to restart your computer now?			
	(<u>Y</u> es <u>N</u> o			

For Windows 2000

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1. After you have installed the USB Wireless Adapter your computer will display the "Found New Hardware Wizard" screen. Click Next.



2. In the next screen, select the option Search for the best driver for your device and then click the **Next** button.

Found New Hardware Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device: USB Device A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next. What do you want the wizard to do? © Search for a suitable driver for my device (recommended) © Display a list of the known drivers for this device so that I can choose a specific driver
< <u>B</u> ack Next> Cancel

3. Please insert the Actiontec USB Wireless Adapter Installation CD into your CD-ROM drive. Select CD-ROM Drive and then click Next.

Found New Hardware Wizard		
Locate Driver Files Where do you want Windows to search for d	river files?	
Search for driver files for the following hardwa	are device:	
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	

4. Your computer will locate the correct drivers named "AEIWLNIC.inf". Click **Next** to install the drivers.



5. The "Wireless LAN Configuration Utility" screen will appear. (Note: The "SSID" must be the same as the "ESSID" on your Home Gateway or Access Point.) Click **OK** to continue the installation process.

nfiguration Wireless LAN C	onfiguration Utility			
				Č
Profile: Default		•		
Mode: Infrastructi	lie	•		
SID: ANY		•		
<u>T</u> ransmit Rate:	Fully Automatic	•	<u>D</u> efaults	
			Undo	
	11 📩		Apply	
		< <u>B</u> ac	k. <u>N</u> ext >	Cance

6. If you have configured any Encryption capabilities in your Home Gateway or Access Point then complete the following screen accordingly. Otherwise, please click **Finish** to complete the installation process.

		EU.
Encryption (WEP): Disabled]	
C Create Keys with <u>Passphrase</u>	-	
C Create Kevs Manually:		
Key <u>1</u> :	-	
Key <u>2</u> :	The second secon	
Key <u>3</u> :		
Key <u>4</u> :	Apply	

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Configuring the Actiontec USB Wireless Adapter

After you have installed the software for the *Action*tec USB Wireless Adapter an, Icon will appear in your Task Bar on the lower right hand side on your Desktop. You will not be automatically connected to your Home Gateway or Access Point. Follow these steps to configure your *Action*tec USB Wireless Adapter.



 Right click on the *Action*tec USB Adapter Status Icon. A list will appear as shown in the picture below. Make sure that there is a black dot next to the **Turn Wireless Radio On**. If the dot is not present then simply select it. Then you want to select the **Advanced Configuration**... selection from the given list.

•	Turn Wireless Radio On Turn Wireless Radio Off		
	Advanced Configuration <u>R</u> emove Status Icon <u>V</u> ersion Information		
	Wireless Network Status	15	3:39 PM
	CT9 A	~	

2. The USB Wireless Adapter's Properties screen will appear. Under the "Configuration" tab the SSID value should be the same as the ESSID value of your Home Gateway or Access Point. For example, if you have configured your Home Gateway or Access Point's ESSID value to "ACTIONTEC" then this same value needs to be typed into the SSID field in the following screen.

Actiontec USB 802.11b Wireless Adapter Prope	erties ? ×
Driver Type Bindings Advanced Configuration	Encryption
Profile: Defaul	
Mode: Infrastructure	
SSID: ANY	
Iransmit Rate: Fully Automatic	<u>D</u> efaults
Power Save Enabled	Undo
AdHoc Channel: 11 🗮	Annlu
	IK Canad

3. After you have entered the appropriate SSID value click **Apply** and then click **OK**. Your *Action*tec USB Adapter will now be able to connect to your Home Gateway or Access Point. If your Home Gateway or Access Point is connected to a DSL or Cable modem then test your wireless connection. You can do this by opening your Internet Browser and then surf the web.

Note: There are two colored bars on either side of the *Action*tec USB Wireless Adapter Icon. When they are **Green** it means that your wireless connection is strong or good. When they are **Yellow** it means that your wireless connection is fair. When they are **Red** it means that your wireless connection is poor or weak. When the bars are Yellow or Red you may experience slower connection speeds then when they are Green.

Encryption (WEP)

You can use Encryption to add a level of security to your USB Wireless Adapter network. This is not a required feature. If you are using a Home Gateway or Access Point you must be sure to use the same Encryption (WEP) keys for your USB Wireless Adapter. Please follow these steps to set this feature up:

- 1. Right click on the *Action*tec USB Adapter Status Icon. A list will appear as shown in the picture on the previous page. Then select **Advanced Configuration**... from the given list.
- 2. Click on the **Encryption** tab.
- 3. You can either select **64 bit** or **128 bit** Encryption depending on your needed level of security. You can select **Create Keys with Passphrase** (a passphrase is the same as a password, with the same type of functionality). Once you have entered a pass phrase the utility will automatically generate the 4 keys. Remember, if you are using a Home Gateway or Access Point these keys will need to be added to it. If you already have a set of keys configured into your Home Gateway or Access Point or you prefer to create the keys manually, select **Create Keys Manually** and enter them in the given fields. Click **Apply** and then **OK** to activate your settings.

Wireless LAN Configuration Utility	×
Configuration Encryption Link About	
Encryption (WEP): 64 bit	
Create Keys with Passphrase	
Passphrase:	
C Create Keys Manually:	
Key <u>1</u> :	
Key <u>2</u> :	Undo
Key <u>3</u> :	
Key <u>4</u> :	
	DK Cancel

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Configuring the AdHoc feature

AdHoc enables two or more computers with the USB Wireless Adapter to talk to each other. The most common usage for this feature is multi-player games in which each player can play the game from each computer against one another via this Adhoc network. If you use the AdHoc feature then a Home Gateway or Access Point is not required. Please follow these steps to set up the AdHoc feature:

1. Right click on the *Action*tec USB Adapter Status Icon. A list will appear as shown in the picture below. Then select **Advanced Configuration**... from the given list.



2. In the "Profile" field type in any name you wish. This will save all the settings under that name. Then click on the down arrow in the "Mode" field and select **802.11** AdHoc. Enter an SSID value in the given field. The SSID value should be the same on each computer that you want to network together. Then in the "AdHoc Channel" box select a channel between the numbers 1-11. This value also must be the same on each computer that you wish to network. Finally, click Apply and OK to activate the settings. Be sure to repeat this for each computer you want to network.

Wireless LAN Configur	ation Utility	×
Configuration Encryption	on Link About	
Profile: Computer A	-]
Mode: 802.11 AdHoc	-	1
SID: ACTIONTEC	•]
<u>I</u> ransmit Rate:	Fully Automatic	<u>D</u> efaults
		Undo
AdHoc <u>C</u> hannel:	2 ÷	
		OK Cancel

Configuring File and Print Sharing

If you have and are using a Home Gateway or Access Point you can establish a network that will allow you to share files and printers. This is an easy method to set up a network in your home or small office. Please follow these steps to setup file and print sharing:

For Windows 95, 98 and ME

- 1. On your computer's desktop click **Start**, then select **Settings** and then select **Control Panel**. In the "Control Panel" window double click the **Network** icon.
- 2. The following "Network" screen should appear. Click the Add button.

Network ? 🗙					
Configuration Identification Access Control					
The following network components are installed:					
 ■ Client for Microsoft Networks ■ FA310T× Fast Ethernet PCI Adapter TCP/IP 					
Add Remove Properties Primary Network Logon:					
Client for Microsoft Networks					
<u>F</u> ile and Print Sharing					
Description					
OK Cancel					

3. In the "Select Network Component Type" screen, click **Service** and then click the **Add** button.

elect Network Component Type	? ×
Click the type of network component you want to install:	<u>A</u> dd
ar Protocol ■ Service	Cancel
A service enables this computer to share files, printers, and other resources with other computers.	

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4. In the following screen please select File and printer sharing for Microsoft Networks from the given list.



In the "File and Print Sharing" screen make sure that both of the selection have a 5. check mark beside them. If they do not please click on the box next to each statement and then click OK.

File and Print Sharing	?×
✓ I want to be able to give others acce	ess to my <u>f</u> iles.
✓ I want to be able to allow others to p	rint to my printer(s).
<u> </u>	Cancel

- After you have clicked OK you will return to the network screen from step 2. Please 6. click on the Identification tab (see the first image on page 26).
 - Computer Name: In this field you can type any name you want. (i.e. My Computer, John, CPU654) Do not use the same name for each computer you wish to have on your network.
 - Workgroup: This field enables you to set a unique name for your network. This name must be set up on every other computer you wish to have on your network.
 - Computer Description: You can enter anything you wish. Traditionally, the location name or main user's name is used in this field.

Network		? ×	
Configuration Iden	tification Access Control		
Windows uses the following information to identify your computer on the network. Please type a name for this computer, the workgroup it will appear in, and a short description of the computer.			
Computer name:	Computer Name 1		
Workgroup:	Workgroup		
Computer Description:	Nickname or Computer Description		
	ОК	Cancel	

- 7. Click on the **Configuration** tab. This will take you back to the screen from step 2. In the "Primary Network Logon:" box, located just above the "File and Print Sharing" button, make sure that Client for Microsoft Networks is selected. If it is not then click the down arrow and select it from the given list. Click OK.
- A screen will appear asking you to restart your computer. Click Yes to restart the 8. computer. If you do not see this screen please restart your computer manually. After your computer restarts you will be asked to supply a User Name and Password. Enter whatever you would like but be sure to write down these values, as they will enable you to access your network.



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9. After your computer has restarted and you entered a password and user name, you must enable a file or drive for sharing. Locate the file or drive you wish to share. (The easiest way to achieve this is through your Windows Explorer, located in the start menu.) Right click on the **File** or **Drive** you wish to share. In the given menu select **Sharing**.

		🖳 My Computer	_ 🗆 🗵
		<u>F</u> ile <u>E</u> dit ⊻iew <u>G</u> o F <u>a</u> vo	rites 🔌 🏢
My Documents	Open Explore Eind	Back Forward	Up ×
	Charles	Agaress j My compater	
	s <u>n</u> aring		6) 🔺
	Send <u>⊺</u> o ▶		<u> </u>
	Cut <u>C</u> opy	3½ Floppy (A:) HARD DRIV	en blore
	Create <u>S</u> hortcut <u>D</u> elete	Displays the properties for sh	aring
	Rena <u>m</u> e	For	<u>m</u> at
	P <u>r</u> operties	Cre	ate <u>S</u> hortcut
		Pro	nerties

V

10. The following screen will appear. Please select **Shared As**. This will enable other users on your network to see the file or drive you selected. Then you can chose the Access Type:

File Share Screen Properties
General Sharing
C Not Shared
Shared As:
Share Name: FILE SHARE S
Comment:
Access Type:
• <u>B</u> ead-Only
C Eul
C Depends on Password
Passwords:
Read-Only Password:
Full Access Password:
OK Cancel Apply

 Read Only: This will allow other users on your network to view and read the file or drive you selected. They will not be able to modify it in any way. You can further restrict their privlidges by entering a password in the appropriate field.

- **Full:** This will allow other users on your network to read, modify, move and delete any information in the shared drive or file. You can further restrict their privlidges by entering a user name and password.
- **Depends on Password:** This will allow you to set both Read Only and Full access on the shared file or drive. The level of access will depend on the passwords you enter in the appropriate field.

When you are finished click Apply and then OK.

File Share Screen Properties	?×	File Share Screen Properties	?×
General Sharing		General Sharing	
C Ngt Shared Share Name: FILE SHARE S Comment: Access Type: C Bead-Only C Depends on Password Passwords: Read-Only Password Full Access Password		C Ngt Shared C Share As: Share Mame: FILE SHARE S Comment: Access Type: C Bead-Only C Eul C Depends on Password Passwords: Rgad-Only Password: Full Access Password:	
OK Cancel Ap	ply	OK Cancel Ap	ply

- 11. Next you need to share your printer. On your desktop, click **Start**, click **Settings**, and then select **Printers**.
- 12. Right click on the printer you want to share. Select "Sharing" from the given list.



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13. The next step will be to enable the sharing by selecting the "Share As" button. It will automatically insert a default name for the Share Name. You may set a password for the printer at this time if you want to restrict who on the network can use this resource. You may also set the default printer settings by modifying information on the other tabs of this window.

For Windows 2000

- 1. After you have installed and configured your USB Adapter, Windows 2000 will automatically enable file and print sharing for your computer. The only item that needs to be altered is your workgroup settings. All the computers on your network must have the same workgroup name but different computer names. To check or change this locate the "My Computer" icon on your desktop. Right click on it and select **Properties** from the given list.
- 2. In the "System Properties" click on the Network Identification tab. If the "Workgroup" name is already the same as all the other computers on your network, then you do not need to change it. Click OK. If it is not the same then click **Properties**.

9	system Properties			?)	<
	General Network Identificat	ion Hardware	User Profiles	Advanced	
	Windows uses the on the network.	e following informa	ation to identify	y your computer	
	Full computer name: ei	nternamehere.			
	Workgroup: W	/ORKGROUP			
	To use the Network Identific domain and create a local u To rename this computer or	cation Wizard to jo iser, click Network join a domain, clic	in a .ID. k	Network ID	
	Properties.				
		ОК	Cancel	Apply	

3. In the "Computer Name:" box type a name that is different from your other PC's on your network. Then, in the "Workgroup" box type the name that you are using to identify your network. This will be the same on each computer on your network. Click **OK** and you will return to the "Network Properties" screen. Click **OK** again and even if you are not asked to do so, please restart your computer.

Identification Changes ? 🗙
You can change the name and the membership of this computer. Changes may affect access to network resources.
Computer name:
anemanenere
Full computer name: enternamehere.
<u>M</u> ore
Member of
© <u>D</u> omain:
WORKGROUP
Cancel

Configuring File and Print Sharing

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Notes: