

## **User Manual**

AirStation

**WI-U2-433DM**

**WI-U2-300D**

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# Chapter 1 Product Overview

## System Requirements

Computer should be IBM/PC compatible with a USB 2.0 port and a CD-ROM drive.

**Notes:**

This product does not support computers equipped with dual processors (computers with two physical CPUs).

Computers with Dual-core CPU's are supported.

AirStation does not support Windows Vista (32-bit) standby mode.

Compatible OS

Windows 8 (64-bit or 32-bit), Windows 7 (64-bit or 32-bit), Windows Vista (64-bit or 32-bit), Windows XP (32-bit)

**Notes:**

Service Pack 2 or later is required for Windows XP.

## Package Contents

The following items are included with your AirStation. If any of the items are missing, please contact your vender.

### WI-U2-433DM

- WI-U2-433DM..... 1
- AirStation Driver CD..... 1
- Quick Setup Guide..... 1
- Warranty Statement..... 1

### WI-U2-300D

- WI-U2-300D..... 1
- AirStation Driver CD..... 1
- USB cable..... 1
- Clip..... 1
- Quick Setup Guide..... 1
- Warranty Statement..... 1

## Hardware Overview

### WI-U2-433DM



- 1** Activity LED (blue)  
Flashes when sending or receiving data.

### WI-U2-300D



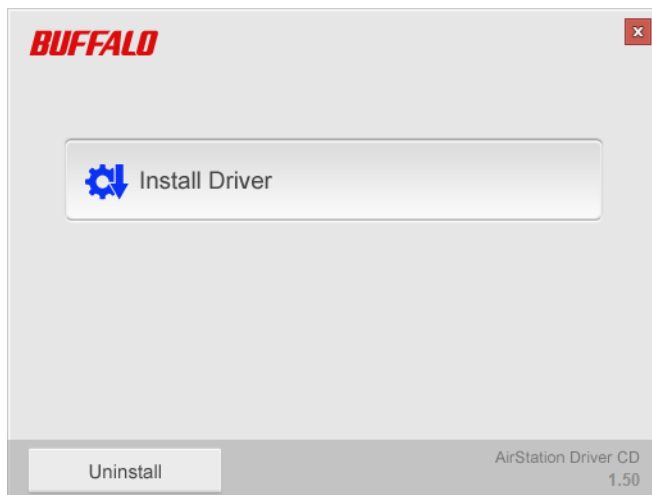
- 1** Activity LED (blue)  
Flashes when sending or receiving data.

# Chapter 2 Installation

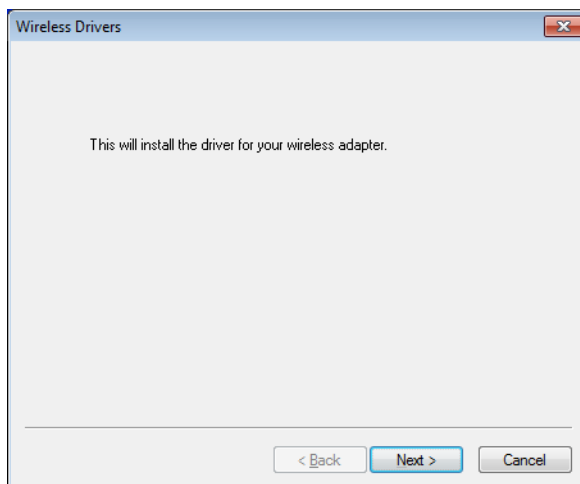
## Installing Wireless Drivers

Follow the instruction below to install drivers. Do not connect the AirStation to your computer yet.

- 1** Boot your computer and insert the AirStation Driver CD.  
The setup menu will launch automatically. If not, open the CD and click "Launcher.exe".
- 2** Click [Install Driver].



- 3** Click [Next].



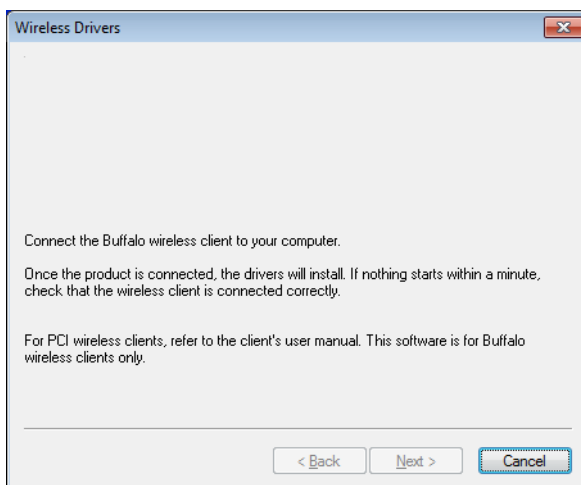
**4** Read the license agreement, select [Agree], then click [Next].



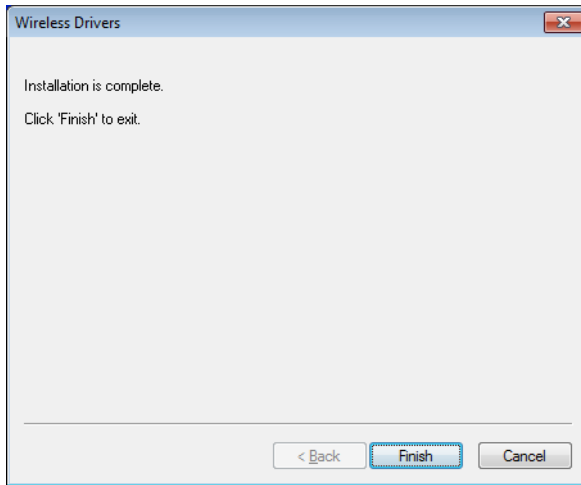
**5** Check "Always trust software from 'BUFFALO INC.," and click [Install].



**6** When the screen below is displayed, attach the AirStation to your computer. Drivers will be installed automatically.



**7** After the drivers are installed, the screen below will be displayed. Click [Finish].




Drivers are now installed.

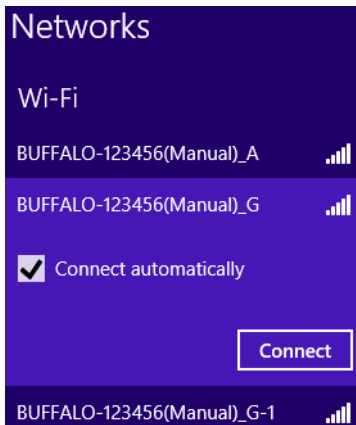


# Chapter 3 Connect to a Wireless Network

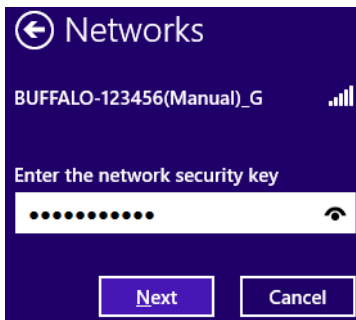
## Windows 8 (WLAN AutoConfig)

With Windows 8, use WLAN AutoConfig to connect to the AirStation.

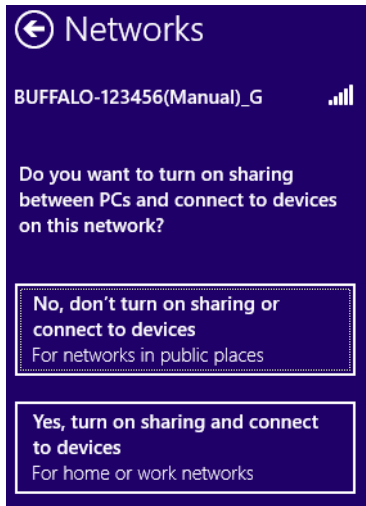
- 1 Switch Windows 8 to desktop mode.
- 2 Click on the  network icon in the system tray.
- 3 Select the target AirStation's name and click [Connect]. If you will be connecting to this device again, check [Connect automatically].



- 4 Enter the encryption key and click [Next].




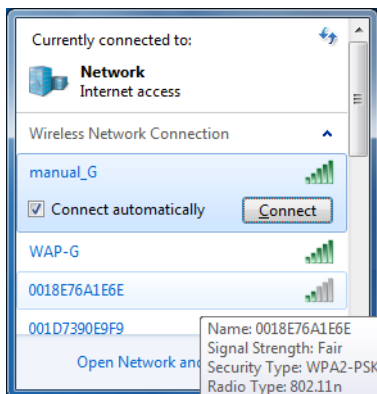
- 5 Click [No, don't turn on sharing or connect to devices].



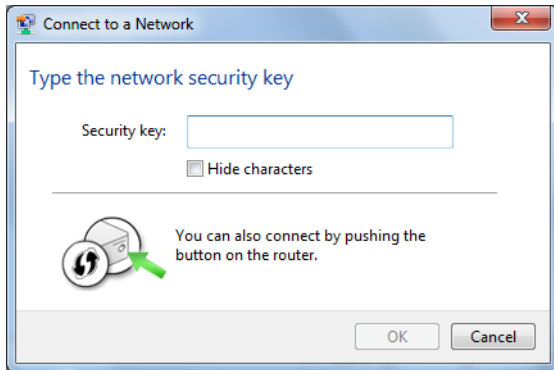
## Windows 7 (WLAN AutoConfig)

With Windows 7, use WLAN AutoConfig to connect to the AirStation.

- 1 Click on the  network icon in the system tray.
- 2 Select the target AirStation's name and click [Connect]. If you will be connecting to this device again, check [Connect automatically].




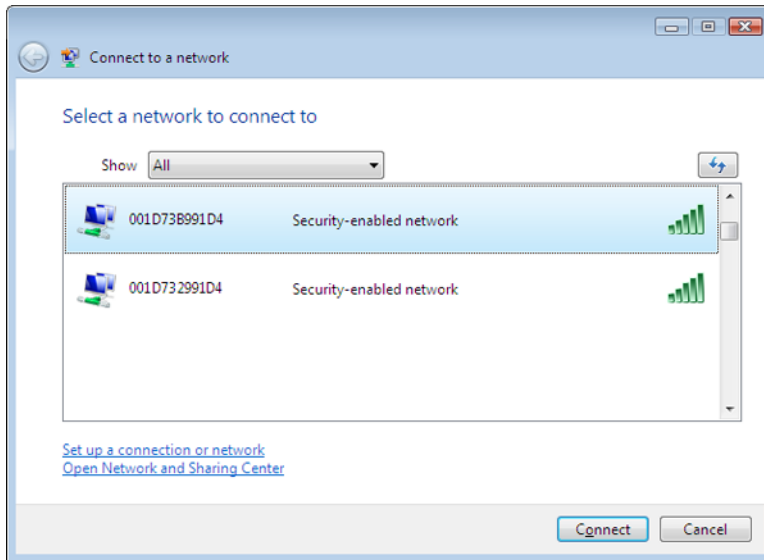
**3** Enter the encryption key and click [OK].



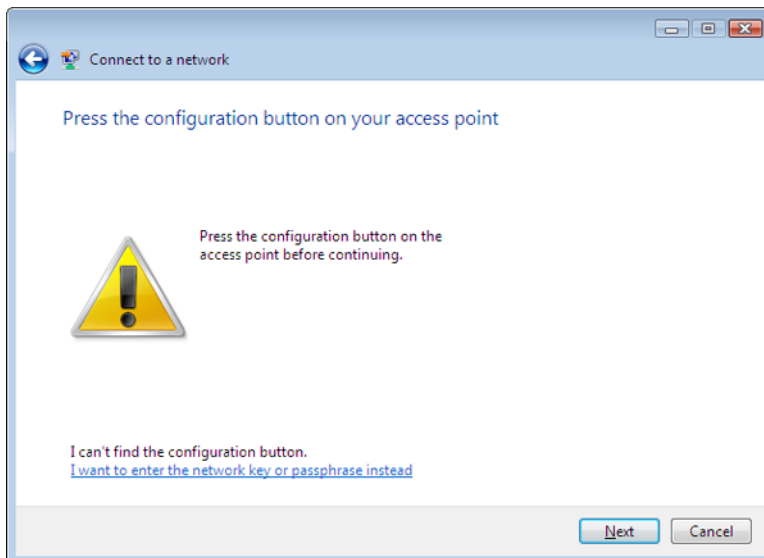
## Windows Vista (WLAN AutoConfig)

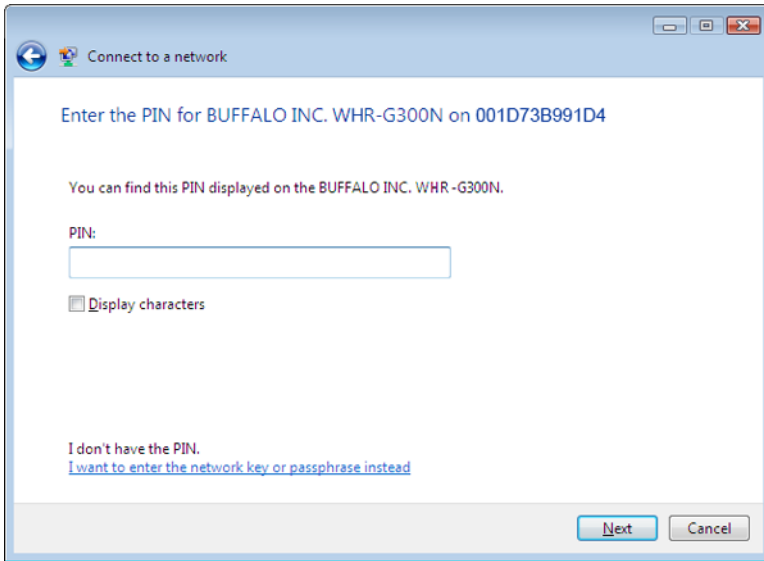
You can use WLAN AutoConfig to connect to a wireless access point:

- 1 Right-click on the  wireless network icon in the system tray.
- 2 Click [Connect to a network].
- 3 Select your wireless network and click [Connect].

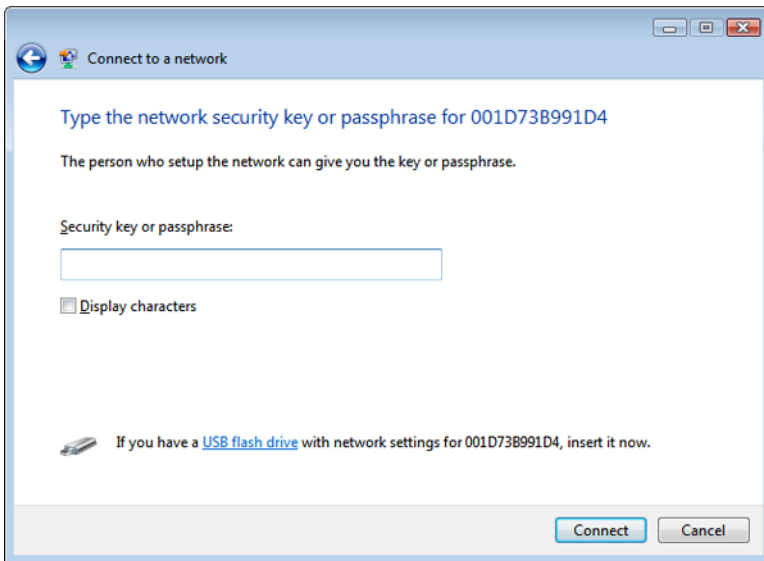


If the screen below is displayed, click [I want to enter the network key or passphrase instead]. Go to step 4.





**4** Enter the encryption key and click [Connect].




Step through the wizard to complete configuration. If the “Set Network Location” screen is displayed, select “Home”, “Work”, or “Public location” depending where you’re using the AirStation.

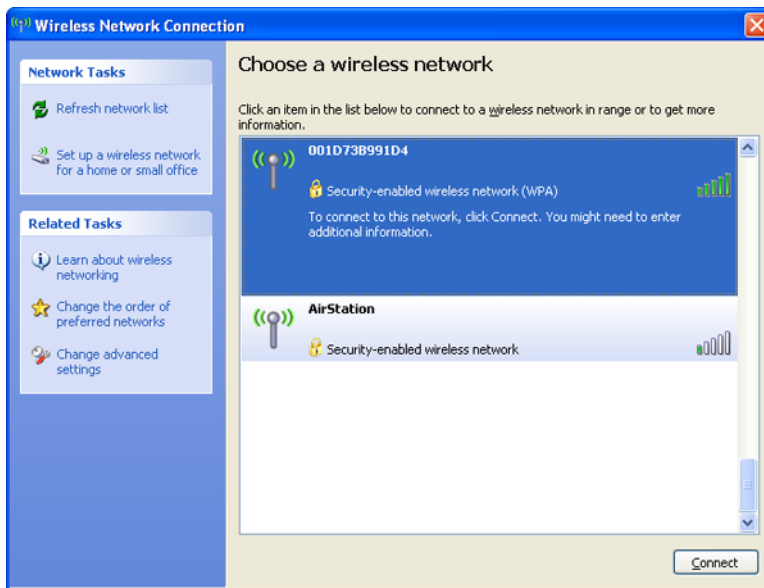
# Windows XP (Wireless Zero Configuration)

Windows XP includes a built-in utility to connect to your wireless Access Point.

**Note:**

If Client Manager 3 is installed on your computer, then Wireless Zero Configuration is disabled. Uninstall Client Manager 3 to use Wireless Zero Configuration, or just use Client Manager 3 to connect to the AirStation.

- 1 Right-click on the  wireless network icon in the system tray.
- 2 Click [View Available Wireless Networks].
- 3 Select a wireless network, then click [Connect].



- 4 Enter the encryption key (passphrase) twice, then click [Connect].



When the connection is complete, the word “Connected” will be displayed to the right of the network’s SSID. Click the “X” in the top right corner of the window to close the utility.

# Chapter 4 Trouble Shooting

## The Computer does not Recognize the Wireless Adapter.

- Make sure that the Wireless Adapter is connected to a USB port on your computer.
- If your computer has multiple USB ports, connect to a different USB port.
- Refer to chapter 2 to reinstall drivers for this unit.

## You Cannot Connect to the Network Wirelessly.

- Refer to chapter 3 to connect the Wireless Adapter to an access point wirelessly.
- Configure the same SSID, encryption method, and encryption key for each wireless device. These settings must match those of your wireless access point.
- Move your wireless devices closer to the access point.  
Restart your access point.

## You Forgot the AP's SSID, Encryption Key, or Password.

Ask your network administrator about your SSID and encryption settings. These settings must match the SSID and encryption settings of the access point.

# Chapter 5 Appendix

## Specifications

### WI-U2-433DM

Wireless LAN Interface	
Standard Compliance	IEEE802.11ac (Draft 2.0) / n / a / g / b
Transmission Method	Direct Sequence Spread Spectrum (DSSS), OFDM, MIMO
Frequency Range	Available frequencies depend on the country of purchase. See the next page for details.
Transmission Rate 802.11ac (Draft)	<p><b>802.11ac (Draft) 20 MHz BW (Long GI):</b> 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6.5 Mbps (1 stream)</p> <p><b>802.11ac (Draft) 20 MHz BW (Short GI):</b> 86.7, 72.2, 65, 57.8, 43.3, 28.9, 21.7, 14.4, 7.2 Mbps (1 stream)</p> <p><b>802.11ac (Draft) 40 MHz BW (Long GI):</b> 180, 162, 135, 121.5, 108, 81, 54, 40.5, 27, 13.5 Mbps (1 stream)</p> <p><b>802.11ac (Draft) 40 MHz BW (Short GI):</b> 200, 180, 150, 135, 120, 90, 60, 45, 30, 15 Mbps (1 stream)</p> <p><b>802.11ac (Draft) 80 MHz BW(Long GI):</b> 390, 351, 292.5, 263.3, 234, 175.5, 117, 87.8, 58.5, 29.3 Mbps (1 stream)</p> <p><b>802.11ac (Draft) 80 MHz BW(Short GI):</b> 433.3, 390, 325, 292.5, 260, 195, 130, 97.5, 65, 32.5 Mbps (1 stream)</p>
Transmission Rate 802.11n / a / g / b	<p><b>802.11n 20 MHz BW (Long GI):</b> 65, 58.5, 52, 39, 26, 19.5, 13, 6.5 Mbps (1 stream)</p> <p><b>802.11n 20 MHz BW (Short GI):</b> 72.2, 65, 57.8, 43.3, 28.9, 21.7, 14.4, 7.2 Mbps (1 stream)</p> <p><b>802.11n 40 MHz BW (Long GI):</b> 135, 121.5, 108, 81, 54, 40.5, 27, 13.5 Mbps (1 stream)</p> <p><b>802.11n 40 MHz BW (Short GI):</b> 150, 135, 120, 90, 60, 45, 30, 15 Mbps (1 stream)</p> <p><b>802.11a / g:</b> 54, 48, 36, 24, 18, 12, 9, 6 Mbps</p> <p><b>802.11b:</b> 11, 5.5, 2, 1 Mbps</p>
Access Mode	Infrastructure Mode
Security	WPA2 (TKIP/AES), WPA-PSK (TKIP/AES), 128/64bit WEP
Other	
Power Supply	5.0 V Bus powered
Power Consumption	2500 mW (Max)



Dimensions	32.4 mm x 17.6 mm x 7.7 mm (1.28 x 0.69 x 0.3 inch)
Weight	4 g (0.14 ounces)
Operating Environment	0 - 40° C (32 - 104° F) , 10-85 % (non-condensing)
<b>802.11a Frequency Range</b>	
USA	5180-5240 MHz (Channels 36, 40, 44, 48)
Canada	5260-5320 MHz (Channels 52, 56, 60, 64)
Mexico	5500-5700 MHz (Channels 100, 108, 112, 116, 120, 124, 128, 132, 136, 140)
	5745-5825 MHz (Channels 149, 153, 157, 161, 165)
<b>802.11g Frequency Range</b>	
USA	
Canada	2412-2462 MHz (Channels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11)
Mexico	

## WI-U2-300D

<b>Wireless LAN Interface</b>	
Standard Compliance	IEEE802.11n / a / g / b
Transmission Method	Direct Sequence Spread Spectrum (DSSS), OFDM, MIMO
Frequency Range	Available frequencies depend on the country of purchase. See the next page for details.
Transmission Rate	<p><b>802.11n 20 MHz BW (Long GI):</b> 130, 117, 104, 78, 52, 39, 26, 13 Mbps (2 streams) 65, 58.5, 52, 39, 26, 19.5, 13, 6.5 Mbps (1 stream)</p> <p><b>802.11n 20 MHz BW (Short GI):</b> 144.4, 130, 115.5, 86.7, 57.8, 43.3, 28.9, 14.4 Mbps (2 streams) 72.2, 65, 57.8, 43.3, 28.9, 21.7, 14.4, 7.2 Mbps (1 stream)</p> <p><b>802.11n 40 MHz BW (Long GI):</b> 270, 243, 216, 162, 108, 81, 54, 27 Mbps (2 streams) 135, 121.5, 108, 81, 54, 40.5, 27, 13.5 Mbps (1 stream)</p> <p><b>802.11n 40 MHz BW (Short GI):</b> 300, 270, 240, 180, 120, 90, 60, 30 Mbps (2 streams) 150, 135, 120, 90, 60, 45, 30, 15 Mbps (1 stream)</p> <p><b>802.11a / g:</b> 54, 48, 36, 24, 18, 12, 9, 6 Mbps</p> <p><b>802.11b:</b> 11, 5.5, 2, 1 Mbps</p>
Access Mode	Infrastructure Mode
Security	WPA2 (TKIP/AES), WPA-PSK (TKIP/AES), 128/64bit WEP
<b>Other</b>	
Power Supply	5.0 V Bus powered
Power Consumption	2500 mW (Max)
Dimensions	73.4 mm x 26.4 mm x 13.2 mm (2.89 x 1.04 x 0.52 inch)
Weight	18 g (0.63 ounces)
Operating Environment	0 - 40° C (32 - 104° F) , 10-85 % (non-condensing)
<b>802.11a Frequency Range</b>	

USA Canada Mexico	5180-5240 MHz (Channels 36, 40, 44, 48) 5260-5320 MHz (Channels 52, 56, 60, 64) 5500-5700 MHz (Channels 100, 108, 112, 116, 120, 124, 128, 132, 136, 140) 5745-5825 MHz (Channels 149, 153, 157, 161, 165)
EU	5180-5240 MHz (Channels 36, 40, 44, 48) 5260-5320 MHz (Channels 52, 56, 60, 64) 5500-5700 MHz (Channels 100, 108, 112, 116, 120, 124, 128, 132, 136, 140)
<b>802.11g Frequency Range</b>	
USA Canada Mexico	2412-2462 MHz (Channels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11)
EU	2412-2472 MHz (Channels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13)

## Uninstalling the Drivers

To remove the AirStation wireless client drivers, follow the procedure described below.

- (1) Insert AirStation Driver CD.
- (2) The setup menu will launch automatically. If not, open the CD and click "Launcher.exe".
- (3) Click [Uninstall].
- (4) Follow the instructions on the screen to remove drivers.

### Windows 8

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To configure TCP/IP in Windows 8, follow the procedure below.

- 1** Open [Control Panel].
- 2** Click [Network and Internet].
- 3** Click [Network and Sharing Center].
- 4** Click [Change adapter settings] on the left side menu.
- 5** Right-click on the network adapter, then click [Properties].
- 6** If the User Account Control screen opens, click [Yes] or [Continue].
- 7** Select [Internet Protocol Version 4 (TCP/IPv4)] then click [Properties].
- 8** To have DHCP set your IP address settings automatically, check [Obtain an IP address automatically] and [Obtain DNS server address automatically].  
Alternately, you can configure the settings manually. Example:  
If the router's IP address is 192.168.11.1,  
IP address 192.168.11.80  
Subnet mask 255.255.255.0  
Default gateway 192.168.11.1  
Preferred DNS server 192.168.11.1  
Alternate DNS server blank
- 9** Click [OK].

# Windows 7

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To configure TCP/IP in Windows 7, follow the procedure below.

- 1** Open [Control Panel].
- 2** Click [Network and Sharing Center].
- 3** Click [Change Adapter Settings] on the left side menu.
- 4** Right-click on the network adapter, then click [Properties].
- 5** If the User Account Control screen opens, click [Yes] or [Continue].
- 6** Select [Internet Protocol Version 4 (TCP/IPv4)] then click [Properties].
- 7** To have DHCP set your IP address settings automatically, check [Obtain an IP address automatically] and [Obtain DNS server address automatically].  
Alternately, you can configure the settings manually. Example:  
If the router's IP address is 192.168.11.1,  
IP address 192.168.11.80  
Subnet mask 255.255.255.0  
Default gateway 192.168.11.1  
Preferred DNS server 192.168.11.1  
Alternate DNS server blank
- 8** Click [OK].

# Windows Vista

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To configure TCP/IP in Windows Vista, follow the procedure below.

- 1** Open [Control Panel].
- 2** Click [Network and Sharing Center].
- 3** Click [Manage network connections] on the left side menu.
- 4** Right-click on the network adapter, then click [Properties].
- 5** If the User Account Control screen opens, click [Yes] or [Continue].
- 6** Select [Internet Protocol Version 4 (TCP/IPv4)] then click [Properties].
- 7** To have DHCP set your IP address settings automatically, check [Obtain an IP address automatically] and [Obtain DNS server address automatically].  
Alternately, you can configure the settings manually. Example:  
If the router's IP address is 192.168.11.1,  
IP address 192.168.11.80  
Subnet mask 255.255.255.0  
Default gateway 192.168.11.1  
Preferred DNS server 192.168.11.1  
Alternate DNS server blank
- 8** Click [Close].

# Windows XP

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To configure TCP/IP in Windows XP, follow the procedure below.

- 1** Open [Control Panel].
- 2** Double-click [Network].
- 3** Right-click on the network adapter, then click [Properties].
- 4** Select [Internet Protocol (TCP/IP)] then click [Properties].
- 5** To have DHCP set your IP address settings automatically, check [Obtain an IP address automatically] and [Obtain DNS server address automatically].  
Alternately, you can configure the settings manually. Example:  
If the router's IP address is 192.168.11.1,  
IP address 192.168.11.80  
Subnet mask 255.255.255.0  
Default gateway 192.168.11.1  
Preferred DNS server 192.168.11.1  
Alternate DNS server blank
- 6** Click [Close].