

## XBee<sup>®</sup> Wi-Fi Development Kit Getting Started Guide

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### Using this Guide

### Conventions used in this Guide



This icon indicates a step that has the potential to be troublesome. Further information regarding items marked with this symbol can be found in "Appendix B" or "Appendix B".

This icon indicates a hint, or concept that is learned.



This icon indicates that a goal of the kit has been completed.

This icon indicates a warning of the potential for confusion or danger.

### **Contact Information**

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To Contact Digi International by:	Use
	Digi International
Mail	World Headquarters
	11001 Bren Road East
	Minnetonka, MN 55343
Phone	1-866-765-9885 toll-free USA and Canada
8:00 AM - 5:00 PM (U.S. Mountain Time)	1-801-765-9885 Worldwide
Online Support	http://www.digi.com/support/eservice/ login.jsp
Email	rf-experts@digi.com

### Introduction

Thank you for purchasing an XBee Wi-Fi Development Kit. This kit is designed to make it easy to set up an XBee Wi-Fi network, send data from one XBee to the other, and adjust the XBee settings. Before you start working with the kit, let's cover some basics.

### Goals of the Kit

As you go through the steps in this kit, you will:



1. Set up your XBee Wi-Fi Development Kit.

- 2. Download and install X-CTU configuration software.
- 3. Use X-CTU to establish an 802.11 bgn network connection between the XBee Wi-Fi modules using an access point or wireless router.

4. Put the XBee Wi-Fi module into deep sleep mode.

#### Requirements of the Kit

#### System Requirements

To install the software mentioned in this guide, you will need a PC running Microsoft Windows 2000, XP, Vista or Windows 7.

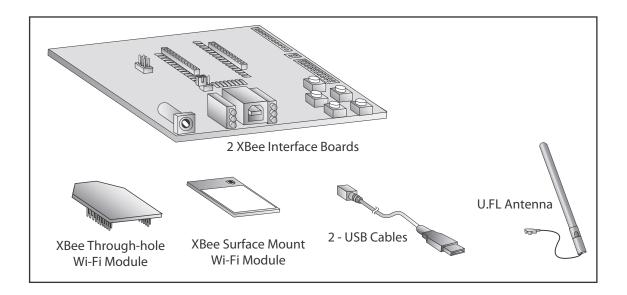
#### Additional Requirements

This guide assumes the use of an 802.11 bgn access point or wireless router (not provided) with WPA, or WPA2 with PSK and DHCP enabled. The XBee Wi-Fi does not support WPA-Enterprise encryption.

Further, this guide assumes both modules are connected to the same access point or router. While it is possible to connect the XBee Wi-Fi to different access points or routers, it is beyond the scope of this guide. For information on communication across access points see the User's Manual.

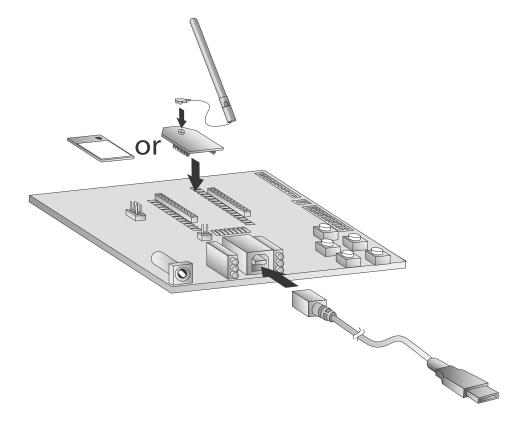
### Identify Kit Components

Carefully unpack and verify the contents of your kit. Your kit should include the following:



### Assemble your XBee Wi-Fi Development Kit

Assemble the kit by placing one XBee Wi-Fi module on each of the XBee USB Development Boards as shown in the diagram below. Connect the U.FL antenna to the U.FL XBee as shown. Connect the USB cable to the XBee USB Development Board; it will be attached to the computer in a later step.



#### Notes:

- 1. The antenna is only installed on U.FL modules. The PCB antenna module comes equipped with an antenna already on the module.
- 2. Modules are installed by aligning pins and pressing into the XBee USB Development Board socket.
- 3. Modules can be removed from the XBee USB Development Board socket by carefully applying upward pressure to the module.
- 4. The power supply jack is on the lower left corner of the board. It is not required for this module. This guide assumes the board is powered by a USB cable connected to the computer.



You have just completed Goal #1 - setting up your XBee Wi-Fi Development Kit.

### Part 2: Download and Install X-CTU Software

For proper kit configuration and operation X-CTU software (version 5.2.8.5 or later) must be downloaded and installed. A copy of X-CTU software and USB drivers will need to be on each computer used in conjunction with this guide.

#### Installing USB Drivers

The XBee USB interface board is a "plug-and-play" device that should be detected by the PC automatically. If you are using Windows 7 or Vista, the USB drivers should automatically install and a notification will appear in the lower right portion of your screen indicating success or failure. If the USB drivers fail to install, please follow the USB driver installation instructions found here: http://www.digi.com/support/kbase/kbaseresultdetl.jsp?id=3214.

If you are using Windows 2000 or XP, download and install the driver as per the following directions.

To install the USB driver:

- Download the driver setup file at: http://ftp1.digi.com/support/driver/FTDI\_Windows\_Driver\_Setup.exe.
- 2. Double-click on the setup file. A window will pop up during installation and automatically close when the process is complete. The USB interface board may now be connected to the computer.

#### Installing X-CTU Software

- 1. Download X-CTU at www.digi.com/xctu.
- 2. Browse to the folder to which you saved the above install file.
- 3. Double-click on the installer file and follow the X-CTU Setup Wizard.
- 4. When asked if you would like to check Digi's web site for firmware updates, click Yes.
- 5. After the firmware updates are complete, click **Close**. Updates may take a few minutes, please be patient.
- 6. Start X-CTU by double-clicking on the X-CTU icon on your desktop, or by selecting **Start > Programs > Digi > X-CTU**.

The X-CTU software is now ready to be used.



You have just completed Goal #2 - downloading and installing the X-CTU configuration software.

# Part 3: Establish an 802.11 bgn Network Connection

This section describes how to establish an 802.11 network connection via an access point or router. It then describes how to set up two XBee modules to transmit and receive data between modules while associated to an access point.

### Starting the X-CTU Software

- 1. Connect the XBee USB Development Board USB cable to the computer.
- 2. Go to the file where you saved the X-CTU software.
- 3. Double-click on X-CTU.exe to start the program.

### Running the X-CTU Software

 Under the PC Settings tab, select the PC serial COM port that will be used (USB Serial Port (COM10)) in this case. The USB ports will be labeled as "USB Serial Port" and are assigned a number based on your PC's settings.

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About				
PC Settings Range Test Terminal Modern Configuration				
Com Port Setup				
Select Com Port				
Communications Port (COM1) Intel(R) Active Management Technology - SOL (COM	Baud 9600 🔽			
Quatech PCI Serial Port (COM5)	Flow Control NONE			
Quatech PCI Serial Port (COM6) Quatech PCI Serial Port (COM7)				
Quatech PCI Serial Port (COM8) USB Serial Port (COM10)	Data Bits 8 💌			
USB Serial Port (COM4)	Parity NONE 💌			
USB Serial Port (COM9)	Stop Bits 1			
	Test / Query			
Host Setup User Com Ports Network Interface				
· · · ·				
API Repon	ise Timeout			
Timeou	t 1000			
Use escape characters (ATAP = 2)				
AT command Setup ASCII Hex				
Command Character (CC) + 2B				
Guard Time Before (BT) 1000				
Modem Flash Update				
🗖 No baud change				

2. Set the following values in the Com Port Setup section of X-CTU:

Baud Rate:	9600
Flow Control:	None
Data Bits:	8
Parity:	None
Stop Bits:	1



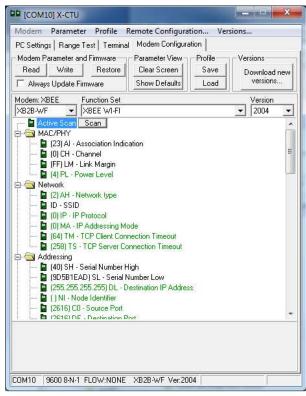
**Note:** The X-CTU baud rate must match the module's BD parameter for proper communication. The module default is 9600 baud.

3. Select the X-CTU Modem Configuration tab, and then click Read.

This will cause X-CTU to display the available settings for the module.

Profile	Remote Configura		rsions	
st Termin	al Modern Configura	ition		
Firmware —	Parameter View	Profile	Versions	
Restore	Clear Screen	Save	Downlo	ad new
vare	Show Defaults	Load	versi	ons
nction Set	0		Versi	on
BEE WI-FI			▼ 2004	4 🔻
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4. To find the available access points and routers within the module's range, scroll to the top of the settings list and click on **Active Scan**. Then click on the **Scan** button that will appear.



5. The XBee will then scan for available access points and routers in the area and bring up the **Scan** window, shown below:

SSID	Link Margin (dBm)	Security
Cisco 1bgn-guest	40	Open
Cisco 1bgn	39	Open
xbeeopen	40	Open
iA-guest	14	WPA2
iA-guest	7	WPA2
Loaner	34	Open
dce	8	WPA2
XBeen	43	WPA2
dce2	5	WPA2
Security Key		
Scan Select AP		Done



The **Security** section shows the type of security used by each network listed. The Link Margin indicator (Link Margin (dBm) is a measure of the signal strength in terms of dBm above sensitivity. The higher the number, the stronger the signal from the access point.

Clicking the **Done** button will close the window. Clicking the **Scan** button within the Scan window will cause the XBee to re-scan for all available access points and routers. The **Security Key** section is for entering the security key of the access point or router selected, if required.

6. Locate the network you would like your XBee Wi-Fi module to join and click on the SSID within the scan window. You will notice that the Security Key section is grayed out if the network's security is "open". If the network is using a security key, enter that key it into the Security Key text box. Little box characters may appear next to each SSID. Please disregard these characters.

SSID	Link Marg	Security
Cisco 1bgn-guest	35	Open
Cisco 1bgn	35	Open
A-guest	8	WPA2
xbeeopen	39	Open
A-guest	16	WPA2
Loaner	28	Open
Metaphor_Lunch	7 5	WPA2
dce	5	WPA2
dce2	, and the second s	WPA2
Security Key		



**Warning:** The XBee Wi-Fi module will not connect to access points or routers that use WPA-Enterprise security. The access point or router needs to be configured for DHCP for the purposes of this guide.

7. Once you have selected a network, click on the **Select AP** button. This connects the XBee Wi-Fi to the network. The **Info** window (shown below) will be displayed; this window tells you how long it took to connect to your specified network.

Module conne in 606 millisec	ected to xbeeopen conds



**Note:** If your XBee Wi-Fi module does not join the access point, please refer to "Appendix B: Possible Access Point/Router Connection Issues".

8. Click the **OK** button. This will close both the info and scan windows.



**Note:** The IP address will be dynamically assigned by the access point or router. This can take a few seconds to complete.

9. Connect the other XBee Interface Board USB cable to the computer and repeat steps 1 through 8 for the second module. You can either open multiple X-CTU windows on the same computer or use a separate computer for each module.



**Warning:** For the purposes of this guide, it is required that both modules join the same access point.

10. Within the Addressing folder you will find the **Module IP Address** line. This is the IP address assigned by the access point or router.

🕒 [СОМ10] Х-СТИ	📭 (сом5) х-сти
Modem       Parameter       Profile       Remote Configuration       Versions         PC Settings       Range Test       Terminal       Modem Configuration       Profile       Versions         Modem       Parameter and Firmware       Parameter View       Profile       Versions         Bead       Write       Restore       Clear Screen       Save       Download new         Always Update Firmware       Show Defaults       Load       Download new         Modem:       XBEE       Function Set       Version         XB2B-WF       XBEE WI-FI       2004       Image: Control of the state	Modem       Parameter       Profile       Remote Configuration       Versions         PC Settings       Range Test       Terminal       Modem Configuration       Modem Parameter and Firmware       Parameter View       Profile       Versions         Read       Write       Restore       Clear Screen       Save       Download new         ✓ Always Update Firmware       Show Defaults       Load       Download new         ✓ Always Update Firmware       Show Defaults       Load       Download new         ✓ Always Update Firmware       Show Defaults       Load       Download new         ✓ Modern: XBEE       Function Set       Version       XBEE WI-FI       2004       Image: State Wite         ✓ Modern: XBEE       Function Set       Version       XBEE WI-FI       2004       Image: State Wite         ✓ Modern: XBEE       Function Set       Version       2004       Image: State Wite       Image: State Wite         ✓ Modern: XBEE       Function Set       Version       2004       Image: State Wite       Image: State Wite         ✓ Setting       Network       Image: State Wite       State Wite       Image: State Wite       Image: State Wite       Image: State Wite         ✓ (0) IP - IP Protocol       Image: State Wite       Image: State Wite<
the second se	



**Note:** If the **Module IP Address** listed is 0.0.0.0, click the **Read** button and the IP address will be displayed. It may take a few seconds for the access point or router to assign an IP address to the XBee Wi-Fi module.

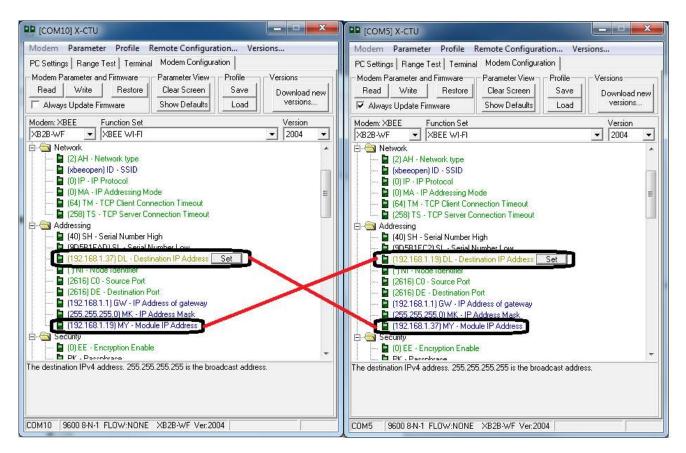
11. Also within the Addressing folder you will find the **Destination IP Address**. Click on this address to display a **Set** button.

Ф [COM10] X-CTU	😐 [COM5] X-CTU
Modem       Parameter       Profile       Remote Configuration         PC Settings       Range Test       Terminal       Modem Configuration         Modem       Parameter       Ander Configuration       Profile         Modem       Parameter       Parameter View       Profile       Versions         Read       Write       Restore       Clear Screen       Save       Download new versions         Always       Update Firmware       Show Defaults       Load       Version         Modem       XBEE       Function Set       Version         XB2B-WF       XBEE WI-FI       2004       Image: Clear Screen         Network       Perform       (2) AH - Network type       Image: Clear Screen         Image: Clear Screen       Save       Load       Image: Clear Screen	Modem       Parameter       Profile       Remote Configuration       Versions         PC Settings       Range Test       Terminal       Modem Configuration       Modem Configuration         Modem       Parameter and Firmware       Parameter View       Profile       Versions         Modem       Parameter and Firmware       Parameter View       Profile       Versions         Modem:       XB2B       Wite       Restore       Clear Screen       Save       Download new         Modem:       XBEE       Function Set       Version       Version         XB2B-WF       XBEE W1-FI       2004       Image: Content of the second secon
<ul> <li>(0) IP - IP Protocol</li> <li>(0) IA - IP Addressing Mode</li> <li>(64) TM - TCP Client Connection Timeout</li> <li>(258) TS - TCP Server Connection Timeout</li> <li>(40) SH - Serial Number High</li> <li>(90581EAD) SL - Serial Number Low</li> <li>(90581EAD) SL - Serial Number Low</li> <li>(255,255,255,255,250 L - Destination IP Address</li> <li>(1) NI - Node Identifier</li> <li>(2616) C0 - Source Port</li> <li>(2616) C0 - Source Port</li> <li>(192,168,1.1) GW - IP Address of gateway</li> <li>(255,255,255,250,01 MK - IP Address Mask</li> </ul>	<ul> <li>(0) IP - IP Protocol</li> <li>(0) MA - IP Addressing Mode</li> <li>(64) TM - TCP Client Connection Timeout</li> <li>(258) TS - TCP Server Connection Timeout</li> <li>Addressing</li> <li>(40) SH - Serial Number High</li> <li>(905B1EC2) SL - Serial Number Low</li> <li>(255 255.255 (255) DL - Destination IP Address Set</li> <li>(1) NI - Node Identifier</li> <li>(2616) CD - Source Port</li> <li>(2616) DE - Destination Port</li> <li>(192, 188.1.1) GW - IP Address f gateway</li> <li>(255 255.255.0) MK - IP Address Mask</li> </ul>
Image: Security       Image: Security         Image: Security       Image: Security	Image: Constraint of the second se

12. Click on the Set button to display the Set String window.

et String		X
192.168.1.19		*
Clear	OK	- Cancel

13. Enter the **Module IP Address** from module 2 into module 1's **Destination IP Address**, and the **Module IP Address** for module 1 into module 2's **Destination IP Address**.



14. Click the Write button (next to the Read button). This will save the settings to the module.



**Note:** To restore the factory original settings click the **Restore** button (next to the Write button). This will place the module in the original settings and allow you to connect to a new network.

15. Select the **Terminal** tab for each module, click anywhere within the white window, and type any characters that you would like the XBee Wi-Fi module to transmit.



**Note:** Typed characters in the window of one module will be transmitted to the other module and displayed in that modules X-CTU screen. Characters transmitted are displayed in blue text and characters received are displayed in red Text.

DD [COM10] X-CTU		DD [COM5] X-CTU	
About XModem PC Settings   Range Test Terminal   Modem Configuration   Line Status   Assert   Close   A	ssemble Clear Show Packet Screen Hex	About XModem PC Settings   Range Test Terminal   Modem Configuration   Line Status   Assert   Close   Assemble	Clear Show Screen Hex
COM10 9600 8-N-1 FLOW:NONE Rx: 2	€ bytes	C0M5 9600 8-N-1 FLOW:NONE Rx: 24 bytes	<u>_</u>



You have just completed Goal #3 - using X-CTU to establish an 802.11 bgn network connection between the XBee modules, using access points or a wireless router.

### *Part 4: Put the XBee Module into Deep Sleep Mode*

Two types of sleep are available on the module; the first is associated sleep. In associated sleep mode the module will remember the connection to the last access point or router it was connected to. For more information on associated sleep see the User's Manual.

The second type of sleep is deep sleep; deep sleep mode will completely power down the Wi-Fi portion of the module. Deep sleep is the lowest current mode for the XBee Wi-Fi module.

To enter deep sleep and wake up the XBee Wi-Fi module perform the following steps:

1. Make sure the X-CTU **Terminal** tab is selected.

DD [CON	И10] X-CT	U						x
Contraction of the second second	XModen							
and the property of the Constitution			erminal	Modem Cor	nfiguration			
Line St	atus D DSR	Assert	RTS 🔽	Break 🗖	Close Com Port	Assemble Packet	Clear Screen	Show Hex
								-
								•
COM10	9600 8-N	-1 FLOW:I	NONE				J	

2. Enter AT command mode by typing +++ in the text window. The module will respond with a red OK as shown below:

COM10] X-CT	TU,			-	X		
About XModer	n						
PC Settings Range Test Terminal Modern Configuration							
Line Status	Assert	Close Com Port	Assemble Packet	Clear Screen	Show Hex		
+++0K							
					and i		
COM10 9600 8-N	I-1 FLOW:NONE	Ru	3 bytes				
10000 04	a reconstruction of the second s	pro-	0 09100	1			

3. Type **atsm1** and press the **Enter** key to enable the deep sleep mode.



**Note:** ATSM1 is an AT command specifying sleep mode 1. Additional information on sleep mode is available in the Product Manual.



**Warning:** This command needs to be entered within a few seconds or the XBee Wi-Fi will automatically exit command mode and you will need to go back to Step 2. The default command mode timeout is 10 seconds.



Note: You can exit the command mode by typing atcn and pressing the Enter key.

E [COM10] X-CT	U					x	
About XModen	n						
PC Settings   Range Test   Terminal   Modem Configuration							
Line Status	Assert	TS 🔽  Break 🗆	Close Com Port	Assemble Packet	Clear Screen	Show Hex	
+++OK atsm1						-	
OK							
						•	
COM10 9600 8-N	I-1 FLOW:NO	NE	B	: 6 bytes	J		

4. To enter sleep mode uncheck the **DTR** box. The CTS light will go out, and the module will go to sleep.

	M10] X-CT XModen						x
PC Setti	ngs   Ranç	ge Test Terr	minal   Modem C	onfiguration			
Line St	atus ID DSR	Assert DTR 🔽 R	TS 🔽   Break 🗆	Close Com Port	Assemble Packet	Clear Screen	Show Hex
+++OK atsm1 OK							

5. To exit sleep mode, wake the module up by checking the **DTR** box. The CTS light will come back on and the XBee Wi-Fi module will wake up.

	XModer							
		ge Test T	erminal   M	1odem Cor	figuration			
Line Sta	atus D DSR	Assert	RTS 🔽 🛛	Break 🦳	Close Com Port	Assemble Packet	Clear Screen	Show Hex
+++OK atsml							0	
OK								
								-
COM10	9600 8-N	I-1 FLOW:	VONE		B	c 6 bytes		



**Warning:** If the X-CTU window displays the message "Unable to monitor com events", it will be necessary to click the **Close Com Port** button (the button name will change to Open Com Port). Click the **Open Com Port** button and the XBee Wi-Fi module will be ready to communicate again.



If the message persists, reset the module as shown in "Appendix A: Troubleshooting". This error is caused by the current requirements at start up. See the Design Notes Power Supply section of the User's Manual for more information.

EE [COM10] X-C	τυ				x
About XMode					
	nge Test Terminal Modem Con	figuration			
Line Status	Assert	Close Com Port	Assemble Packet	Clear Screen	Show Hex
+++OK atsm1 OK	monitor com events	$\smile$			
					×
COM10 9600 8-	N-1 FLOW:NONE	B	x: 6 bytes		



You have just completed Goal #4 - putting the XBee Wi-Fi module into deep sleep mode.

Congratulations! You have just completed all of the goals of the XBee Wi-Fi Getting Started Guide. This concludes your introduction to the XBee Wi-Fi modules.

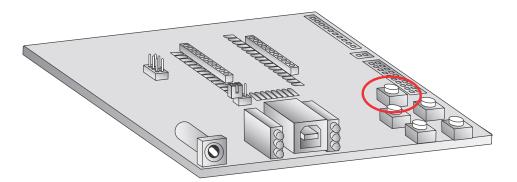
### **Further Information**

There are many more features available in the XBee Wi-Fi firmware. Some of these features include API mode, over-the-air configuration, and access to analog and digital I/O lines. Details regarding these topics and more can be found in the product manual. In addition, message boards for questions and other help can be found at the *XBee Wi-Fi Forum*.

### Appendix A: Troubleshooting

### Resetting the XBee Wi-Fi Module

Each XBee USB Development Board has a reset button (located as shown below):



Pressing this button resets the module, but will not clear any changes written to the module. Pressing this button will also reset the COM port for the board.

To reconnect to the module after pressing the reset button select the **Terminal** Tab, and then click the **Close Com Port** button.



Clicking the **Close Com Port** button will gray out the large text box and change the name on the button to **Open Com Port**.

🛱 [СОМ10] Х-СТИ	
About XModem	
PC Settings   Range Test Terminal   Modem Configura	ation ]
Line Status Assert DTR 🔽 RTS 🔽 Break 🗖	pen Assemble Clear Show
	n Port Packet Screen Hex
	4
	<b>.</b>
COM10 9600 8-N-1 FLOW:NONE	Rx: 0 bytes

Clicking the **Open Com Port** button will restore the connection.

□□ [COM10] X-CT	U		
About XModen			
PC Settings Rang	ge Test Terminal   Modem Co	onfiguration	
Line Status	Assert	Close Asser Com Port Pac	
			<u>•</u>
			•
COM10 9600 8-N	-1 FLOW:NONE	Rx: 0 byte	es 🔤

### Appendix B: Possible Access Point/Router Connection Issues

If the XBee Wi-Fi is not connecting to the access point or router, please check the following:

- 1. Be sure the access point or router is connected to a power source and turned on.
- 2. Check the access point or router for the proper security settings (Open [no security], WEP, WPA-PSK and WPA2-PSK are supported). Be sure MAC address filtering is turned off on the assess point or router, as this will require the XBee Wi-Fi modules MAC address to be entered into the system.
- Check the access point or router to be sure it is in the DHCP setting which will dynamically assign an IP address to the XBee Wi-Fi. Static addressing is also available, consult the product manual for more information on static addressing.
- 4. Check the XBee Wi-Fi module for proper antenna installation. If no antenna connector is available the XBee Wi-Fi module could have an internal antenna on the printed circuit board.
- 5. Be sure the XBee Wi-Fi is within the range capabilities of the access point or router. Moving the XBee Wi-Fi and access point or router closer together could solve this issue.
- 6. IF the security setting is not OPEN (no security selected), be sure the proper security key has been entered. The security key is set on the access point or router.
- 7. Some access points and routers have a setting where the SSID (name of the access point or router) is not visible. In this case the SSID will not show up using an active scan. For information on setting the SSID in the XBee Wi-Fi module consult the product manual.
- 8. A module reset as described in "Appendix A: Troubleshooting" may also solve the issue.