



## BHD-2xx Bluetooth® Dongle



FC CE

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# Bluetooth<sup>®</sup> for Microsoft<sup>®</sup> Windows<sup>®</sup> Help

- [Introduction](#)
- [Basic Operations](#)
- [Specifying How Bluetooth Technology Works on Your Computer](#)
- [How to Use Bluetooth](#)
- [Troubleshooting](#)

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## **Introduction**

- [Bluetooth Networking Overview](#)
  - [Using Bluetooth Tools](#)
  - [Supported Operating Systems](#)
  - [Status of Devices and Services](#)
-

## Bluetooth Networking Overview

Bluetooth® wireless technology allows short-range (within a distance of 10 meters) communication among Bluetooth enabled devices, eliminating the need for cables. When connected, one device can use or be used by the other, as specified by the user.

Because Bluetooth communications are broadcast over the air, Bluetooth communications can be set to use encryption to protect against others intercepting sensitive data. Typical Bluetooth enabled devices include:

- Human interface devices such as a mouse or keyboard
- Computers (desktop, notebook, PDA, for example)
- Imaging devices (printers, scanners, and cameras)
- Printers
- Audio devices
- Network access points
- Telephones
- Fax machines

Examples of how one Bluetooth device can use or be used by another Bluetooth device are:

- Using a wireless mouse, keyboard, or game controller
- Listening to or playing audio
- Exchanging files and business cards
- Synchronizing Personal Information Manager databases
- Connecting to the Internet
- Printing or sending a fax

To begin using your Bluetooth enabled computer for specific tasks, see [How to Use Bluetooth](#).

To change the default settings that control how Bluetooth works on your computer, see [Specifying How Bluetooth Technology Works on Your Computer](#).

To learn about available Bluetooth tools and how to use them, see [Using Bluetooth Tools](#).

If you are having difficulty using Bluetooth, see [Troubleshooting](#).

To learn more about Bluetooth functionality in general, see [Basic Operations](#).

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## Using Bluetooth Tools




Most of the following Bluetooth tools and controls are available on your computer:

- **My Bluetooth Places** - My Bluetooth Places provides fast access to Bluetooth tasks and other places of potential interest. When you use the services provided by other Bluetooth devices, shortcuts to these services are automatically placed here. Shortcuts comprise the service icon and the name of the service. The status of the connection to the service is indicated both by the appearance of the icon and the description shown under Comments (see [Status of Devices and Services](#)).
- **Bluetooth Setup Wizard** - The Bluetooth Setup Wizard enables you to easily do the following:
  - Find another Bluetooth device to use
  - Specify how to use the other device
  - Specify how other devices can use this computer
  - Assign a name and device type that this computer broadcasts to other devices
- **Bluetooth Configuration** - Bluetooth Configuration enables you to change the default settings that control how Bluetooth works on your computer. See [Specifying How Bluetooth Technology Works on Your Computer](#) for a detailed description.
- **Quick Connect** - Quick Connect is another tool that enables you to start using the service of another Bluetooth device. If you have used the service before, Quick Connect enables you to immediately connect to that service. If you have not used the service before, you must find the devices that provide the service. For instructions, see [Making a Quick Connection](#).
- **Start/Stop the Bluetooth Device** - This control (if available) allows you to turn the Bluetooth radio on or off when you are using your computer in a location that prohibits the operation of radio devices, such as on board a commercial aircraft. To use this control, see [Start/Stop the Bluetooth Wireless Adapter](#). If this control is not available on your computer, refer to the manual that came with your computer for instructions on how to turn the Bluetooth radio on and off. Typically, the radio is turned on and off with a hardware switch or by using a software utility.

To access Bluetooth tools and controls

Right-click the **Bluetooth** icon  in the [taskbar notification area](#).

Besides providing access to Bluetooth tools and controls, the Bluetooth icon in the taskbar notification area also indicates the general status of the Bluetooth wireless adapter:

-  The adapter is working and the radio is on.
  -  The adapter is either not working or the radio is off.
  -  The adapter is working and this computer is connected to another Bluetooth device.
-

## **Supported Operating Systems**

The Bluetooth wireless adapter supports the following operating systems:

- Windows XP
- Windows XP Professional, x64 Edition
- Windows 2000
- Windows Me
- Windows 98, Second Edition

The instructions in this document are based on using the Bluetooth wireless adapter in a computer running Windows XP.

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







## Status of Devices and Services

The type and status of Bluetooth devices and the services they provide are indicated by the icons that are displayed in My Bluetooth Places, My Device, and Entire Bluetooth Neighborhood.





































 NOTE: To view status information, the device name, and additional information in **My Bluetooth Places, My Device, Entire Bluetooth Neighborhood**, respectively, click the **View** arrow in the toolbar, and then click **Details**.

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## Device Icons

<i>Type of Device</i>	<i>Icon Indicating Device Type and State</i>		
	<i>Normal</i>	<i>Connected</i>	<i>Paired</i>
Audio Gateway			
Headphones			
Camera			
Desktop Computer			
Headset			
Keyboard			
Mouse			
Modem			
Network Access Point			
Notebook Computer			
Personal Digital Assistant			
Printer			
Telephone			
Unknown Device			

## Service Icons


Type of Service	Icon Indicating Device Type and Availability of Service and Service Status		
	Normal	Connected	Not Available <sup>1</sup>
Audio Gateway			
Headphones			
Headset			
File Transfer			
Bluetooth Imaging			
Network Access			
PIM Item Transfer			
PIM Synchronization			
Dial-up Networking			
Printer			
Bluetooth Serial Port			
Fax			


<sup>1</sup>A service may be unavailable because it is in use or because the device providing the service is not available or in range.

## **Basic Operations**

- [Terminology](#)
  - [Finding Bluetooth Devices](#)
  - [Viewing My Bluetooth Services](#)
  - [Making a Quick Connection](#)
-

## Terminology

Bluetooth Exchange Folder	<p>The highest-level folder to which another Bluetooth device has access. Devices that have been granted access to a Bluetooth Exchange Folder also have access to all subfolders contained within that folder and all files in those subfolders.</p> <p> <b>CAUTION!</b> By default, the Bluetooth Exchange Folder is placed in My Documents. If you relocate the Bluetooth Exchange Folder, do not place it in a root or system folder. Relocating the Bluetooth Exchange Folder to a root or system folder enables remote devices to harm the operating system on your computer.</p> <p>The Bluetooth Exchange Folder is shared by the PIM Item Transfer and the File Transfer services. The location of the folder can be specified from the Properties page of either of these services. If you change the location of the Bluetooth Exchange Folder for one of these services, the path is automatically updated for the other service.</p> <p>The Bluetooth Imaging service also uses this folder to store received images.</p>
authentication	A Bluetooth security feature that is used to verify identity. During the initial authentication process, the Bluetooth device that initiates the connection requires the remote device to supply a Bluetooth PIN code.
BDA	Bluetooth Device Address (assigned by the manufacturer).
Bluetooth wireless technology	Bluetooth® wireless technology allows short-range (within a distance of 10 meters) communication among Bluetooth enabled devices, eliminating the need for cables. When connected, one device can use or be used by the other, as specified by the user.
Bluetooth security code	An alphanumeric string up to 16 characters long that is typed to respond to a Bluetooth PIN Code Request. Also referred to as a passkey, password, passcode or PIN code.
Client Applications	Software applications on this computer that allow this computer to use the Bluetooth services that are provided by remote Bluetooth devices.
Bluetooth device	Bluetooth enabled hardware such as a computer, printer, fax, mouse, keyboard, telephone, headset, headphones, camera, or PDA.
Dynamic Host Control Protocol	A protocol used by a server to assign an Internet Protocol (IP) address to a connecting device.
encryption	Encryption translates data into an unreadable format using a secret key or password. Decrypting the data requires the same key or password that was used to encrypt it.
HCI	<b>Host Controller Interface.</b>
HID	<b>human interface device.</b> A mouse or keyboard, for example.
link key	An internally generated unique security key that is exchanged by paired devices as proof of identity before a connection is established. Link keys are generated automatically when two devices pair.
Local Services	Bluetooth services such as Headset, Headphones, Audio Gateway, File Transfer, and Printer that this computer provides to other Bluetooth devices. Bluetooth services are used to carry out actions between a program installed on your computer and a remote Bluetooth device.
My Bluetooth services	See Local Services.

paired devices	Bluetooth devices must be paired before they can establish a secure (authenticated and encrypted) connection. Paired devices share a unique link key, which is exchanged automatically each time they connect.
PDA	<b>personal digital assistant.</b>
PIM	<b>Personal Information Manager.</b> An application, such as Microsoft® Outlook®, that is used to manage contacts, send and receive e-mail, and schedule events and tasks.
Secure connection	A Bluetooth service or application property setting that requires a passkey or link key each time you attempt to make a connection. All data exchanged over the Bluetooth connection is encrypted. Depending on other configuration options, authorization may also be required.
shortcut	An icon that provides quick access to frequently used programs, files, folders, and drives. Double-clicking such an icon opens its corresponding folder or file without first having to find it. Shortcut icons do not change the location of files; they simply link to the file wherever it is located. You can delete a shortcut without deleting the file with which it is associated. Also, you can rename a shortcut.
taskbar notification area	The area on the Windows taskbar that displays the time and can also contain shortcuts that provide quick access to programs. This is where the Bluetooth icon  is located.

## Finding Bluetooth Devices

To find all Bluetooth devices that are in range

1. Open **My Bluetooth Places**.
2. Click **View devices in range**.

To find a specific Bluetooth device

1. Open **My Bluetooth Places**.
  2. Click **Bluetooth Setup Wizard**
  3. Click **I want to find a specific Bluetooth device and configure how this computer will use its services**.
-

## Viewing My Bluetooth Services


Bluetooth services are used to carry out actions between a program installed on your computer and a remote Bluetooth device. The Bluetooth services that are installed on this computer are known as My Bluetooth services, and they are listed in My Device. See also [Managing Bluetooth Devices and Services](#).

To view My Bluetooth services

1. Open **My Bluetooth Places**.
  2. Click **View My Bluetooth services**.
-



## Making a Quick Connection

To make a quick connection, right-click the **Bluetooth** icon  in the taskbar notification area, point to **Quick Connect**, point to the name of the service you want to use, and then click the name of the device that provides the service.

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## Start/Stop the Bluetooth Wireless Adapter

To start or stop the Bluetooth wireless adapter, right-click the **Bluetooth** icon  in the taskbar notification area, and then click either **Start the Bluetooth Device** or **Stop the Bluetooth Device**. The command that is available depends on the current state of the Bluetooth adapter.


If this control is not available on your computer, refer to the manual that came with your computer for instructions on how to turn the Bluetooth radio on and off. Typically, the radio is turned on and off with a hardware switch or by using a software utility.

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## How to Use Bluetooth

- [Use a Bluetooth Keyboard, Mouse, or Other HID](#)
- [Listen to Audio from This Computer on Bluetooth Headphones](#)
- [Play Audio from a Bluetooth Player on This Computer](#)
- [Use a Bluetooth Headset for Instant Messaging or Telephone Calls](#)
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- [Redirect High-Quality Audio Played on This Computer to the Speakers on the Target Computer](#)
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- [Make a Network Connection to Another Bluetooth Device or to a Local Area Network \(LAN\) Using the Network Connection of the Other Device](#)
- [Exchange Electronic Business Cards with Another Bluetooth Device and Send Other PIM Items to the Other Device](#)
- [Synchronize the PIM Database on This Computer with the PIM Database of Another Bluetooth Device](#)
- [Print to a Bluetooth Printer from This Computer](#)
- [Print from Another Bluetooth Device to a Standard Printer That Is Physically Connected to This Computer](#)
- [Establish a Virtual Serial Port Connection Between This Computer and Another Bluetooth Device](#)
- [Respond to Bluetooth Security and Authorization Messages](#)

## Use a Bluetooth Keyboard, Mouse, or Other HID

 **NOTE:** Before you begin, refer to the manual that came with your HID for instructions for making the device discoverable.

### To use a Bluetooth keyboard, mouse, or other human interface device

1. Verify that the keyboard, mouse or other human interface device (HID) contains batteries, that the batteries are inserted properly and are fully charged, and that you know where the Connect button is.
2. From this computer, open **My Bluetooth Places**.
3. Click **Bluetooth Setup Wizard**.
4. Click **I know the service I want to use and I want to find a Bluetooth device that provides that service**, and then click **Next**.
5. Click **Human Interface Device** in the **Bluetooth Service Selection** list, and then click **Next**.
6. Press the **Connect** button on the keyboard, mouse, or other HID.
7. When you see the **HID** icon in **Bluetooth Device Selection**, click the icon, and then click **Next**.
8. If the HID is a keyboard, using the keyboard, type *the Bluetooth security code* showing in the **Bluetooth security code** box, and then press ENTER.


-or-

If the HID is a Bluetooth mouse or other Bluetooth pointing device, use the Bluetooth mouse or other Bluetooth pointing device to click **Click here** in **Confirmation Required**.

You can now use the Bluetooth HID.


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## Listen to Audio from This Computer on Bluetooth Headphones


 NOTE: Before you begin, refer to the manual that came with your Bluetooth headphones for instructions for making the headphones discoverable.

To listen to audio from this computer on Bluetooth headphones

1. From this computer, open **My Bluetooth Places**.
2. Click **Bluetooth Setup Wizard**.
3. Click **I want to find a specific Bluetooth device and configure how this computer will use its services**, and then click **Next**.
4. Make the headphones discoverable.
5. When the **BT-Headphones** icon is shown in **Bluetooth Device Selection**, click the **BT-Headphones** icon, and then click **Next**.
6. To pair the headphones with this computer, in **Bluetooth Security Setup**, type *the Bluetooth security code* in the **Bluetooth security code** box, and then click **Pair Now**.

 NOTE: Refer to the manual that came with the headphones for the security code.

7. Click **Finish**.
8. If the headphones are not connected, in **Entire Bluetooth Neighborhood**, right-click **BT-Headphones**, and then click **Connect Headset**.

 NOTE: The headphones must be discoverable before you can connect. If you do not connect, make the headphones discoverable and try again.

9. Start the media player on this computer.

To disconnect the headphones

1. From this computer, open **My Bluetooth Places**.


 NOTE: If there is a **BT-Headphones** shortcut in **My Bluetooth Places**, skip to step 3.

2. Click **View devices in range**.
  3. Right-click **BT-Headphones**, and then click **Disconnect Headset**.
-

## Play Audio from a Bluetooth Player on This Computer

To play audio from a Bluetooth player on this computer

1. From this computer, open **My Bluetooth Places**, and then click **Bluetooth Setup Wizard**.
2. Click **I know the service I want to use and I want to find a Bluetooth device that provides that service**, and then click **Next**.
3. Click **Audio Gateway** in the **Bluetooth Service Selection** list, and then click **Next**.
4. In the **Bluetooth Device Selection** list, click the name of the Bluetooth audio player device, and then click **Next**.

 **NOTE:** If the device you are searching for is not an audio device (such as a computer), click **Show all devices** in the list to the right of **Search Again**, and then click **Search Again**.

5. The **Start the connection** check box is selected by default. To accept the default setting and have the connection start automatically, click **Finish**.

You are now able to play audio from the Bluetooth player on this computer.

### To disconnect the audio gateway

1. From this computer, open **My Bluetooth Places**.
  2. Right-click the **Audio Gateway** icon, and then click **Disconnect Audio Gateway**.
-




## Use a Bluetooth Headset for Instant Messaging or Telephone Calls

To use a Bluetooth headset for instant messaging or telephone calls

1. From this computer, open **My Bluetooth Places**.
2. Click **Bluetooth Setup Wizard**.
3. Click **I want to find a specific Bluetooth device and configure how this computer will use its services**, and then click **Next**.
4. Make the headset discoverable.

 **NOTE:** Refer to the manual that came with the headset for instructions for making the headset discoverable.

5. In **Bluetooth Device Selection**, click the **Audio Headset** icon, and then click **Next**.
6. Enable Pairing mode on the headset.

 **NOTE:** Refer to the manual that came with the headset for instructions for enabling Pairing mode and for the security code.

7. In **Bluetooth Security Setup**, type *the Bluetooth security code* in the **Bluetooth security code** box, and then click **Pair Now**.
8. In **Bluetooth Service Selection**, click **Headset**, and then click **Finish**.
9. In **Entire Bluetooth Neighborhood**, right-click the **Audio Headset** icon, and then click **Connect Headset**.

You are now ready to use your Bluetooth headset while talking on a telephone call or to send or receive instant voice messages over your Internet connection.

 **NOTES:**

- The BTW software sets the audio quality based on the audio characteristics of the audio device.
- You may need to press a button on the headset to answer a call. Refer to the manual that came with the headset for instructions.


To disconnect the headset

1. From this computer, open **My Bluetooth Places**.
  2. Right-click the **Audio Headset** icon, and then click **Disconnect Headset**.
-


## Use a Bluetooth Headset for Voice Playback and Recording

To use a Bluetooth headset for voice playback and recording

1. From this computer, open **My Bluetooth Places**.
2. Click **Bluetooth Setup Wizard**.
3. Click **I want to find a specific Bluetooth device and configure how this computer will use its services**, and then click **Next**.
4. Make the headset discoverable.


 **NOTE:** Refer to the manual that came with the headset for instructions for making the headset discoverable.

5. In **Bluetooth Device Selection**, click the **Audio Headset** icon, and then click **Next**.
6. Enable Pairing mode on the headset.

 **NOTE:** Refer to the manual that came with the headset for instructions for enabling Pairing mode and for the security code.

7. In **Bluetooth Security Setup**, type *the Bluetooth security code* in the **Bluetooth security code** box, and then click **Pair Now**.
8. In **Bluetooth Service Selection**, click **Headset**, and then click **Finish**.
9. Click **View devices in range**.
10. In **Entire Bluetooth Neighborhood**, right-click the **Audio Headset** icon, and then click **Connect Headset**.
11. In **Bluetooth Audio Notice** click **OK**.

You can now open your audio software application and begin using your Bluetooth audio headset.

 **NOTE:** The BTW software sets the audio quality based on the audio characteristics of the audio device.

To disconnect the headset

1. From this computer, open **My Bluetooth Places**.
  2. Right-click the **Audio Headset** icon, and then click **Disconnect Headset**.
-




## Redirect High-Quality Audio Played on This Computer to the Speakers on the Target Computer


In the following instructions, *this computer* refers to the computer running the media player, and the *target computer* refers to the computer to which the high-quality audio is to be redirected.

To redirect high-quality audio played on this computer to the speakers on the target computer

1. Open **My Bluetooth Places** on this computer.
2. Click **View devices in range**.

 NOTE: It may be necessary for you to click **Search for devices in range** one or more times to discover the target computer.

3. Click the name of the target computer, and then click **Discover services**.
4. Right-click the **Headset** service, and then click **Connect Stereo Headphones**.
5. Start the media player on this computer.

 NOTE: If the Headset service on the target computer requires a secure connection, you must respond to the Bluetooth security and authorization messages that appear in the notification area of each computer (see [Respond to Bluetooth Security and Authorization Messages](#)).


To discontinue redirecting high-quality audio from this computer to the target computer

1. Open **My Bluetooth Places** on this computer.
  2. Click **View devices in range**.
  3. Right-click the name of the target computer, and then click **Disconnect Stereo Headphones**.
-

## Access Files on Another Bluetooth Device from This Computer

To access files on another Bluetooth device from this computer

1. If the other Bluetooth device is not another Bluetooth computer, enable the File Transfer service on the other device (refer to the manual that came with the other Bluetooth device for instructions).
2. From this computer, open **My Bluetooth Places**.
3. Click **Bluetooth Setup Wizard**.
4. Click **I know the service I want to use and I want to find a Bluetooth device that provides that service**, and then click **Next**.
5. Click **File Transfer** in the **Bluetooth Service Selection** list, and then click **Next**.
6. In **Bluetooth Device Selection**, click the name of the other device, and then click **Next**.

 **NOTE:** If the **Secure connection** property of the File Transfer service of the other device has been set, type *the security code you want to use* in the **Bluetooth security code** box, and then click **Pair Now**. The operator of the other device must know the security code and must be available to respond to the **Bluetooth Security Code** request sent by this computer (see [Respond to Bluetooth Security and Authorization Messages](#)). Otherwise, the pairing process fails. After the two device are paired, you can access the files on the other device without having to be granted access permissions.

7. Click **Finish**.

You can now access the files in the Bluetooth Exchange Folder of the other Bluetooth device. To do so, in **My Bluetooth Places**, double-click the **File Transfer** shortcut to open the **Bluetooth Exchange Folder** on the other Bluetooth device.

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## Allow Other Bluetooth Devices to Access Files on This Computer

To allow other Bluetooth devices to access files on this computer

1. From this computer, open **My Bluetooth Places**.
2. Click **View my Bluetooth services**.
3. Right-click **My File Transfer**, and then click **Properties**.
4. On the **General** tab, specify how you want the File Transfer service to start. By default, the **Startup automatically** check box is selected. If you prefer to manually start the service, clear the check box.
5. To require the use of a security code to connect to this service and to encrypt Bluetooth transmitted data, select the **Secure connection** check box. If you prefer not to require the use of a security code and to not encrypt data, do not select the checkbox.
6. Specify remote user access permissions by selecting either, both, or none of the **Remote users may modify read-only files and folders** and **Remote users may access hidden files or folders** check boxes.

 NOTE: To specify a different location than the default location where the File Transfer service will save files, click **Browse**.

7. To specify if or how you want to be notified when another Bluetooth device access the files on this computer, click the **Notifications** tab, and then select either the **Do not provide notification** check box, or either or both of the **Visual notification** and **Audio notification** check boxes.
8. Click **OK** to save your settings.

Other Bluetooth devices can now access the files in your Bluetooth Exchange Folder.

 NOTE: If you set the **Secure connection** property of the File Transfer service of this computer, you must be available to respond to the **Bluetooth Security Code Request** sent by the other device when the other device initially attempts to connect to this computer (see [Respond to Bluetooth Security and Authorization Messages](#)). Otherwise, the pairing process fails. After the two device are paired, the other device can access the files on this computer without having to obtain access permissions.

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