

# About Bluetooth

Bluetooth is a technology which enables wireless communication. With Bluetooth, you can access internet or exchange data with other Bluetooth devices (e.g., computer, mobile phone, access point) without connecting cables.

## Bluetooth Specification





- Bluetooth Specification V1.1 Compliant
- Power class: Class 1

## Bluetooth Services

- LAN Access Profile (Client and Server)
- Dial-up Networking Profile (Client and Server)
- FAX Profile (Client)
- Serial Port Profile (Client and Server)
- Generic Object Exchange Profile
- Object Push Profile (Client and Server)
- File Transfer Profile (Client and Server)
- Synchronization Profile (Client and Server)
- Generic Access Profile
- Headset Profile (AG and HS)
- Hardcopy Cable Replacement Profile (Client)
- Personal Area Network Profile (AP, Group and User)
- Human Interface Device Profile (Host)

## Bluetooth Switch (Bluetooth ON/OFF)

Bluetooth can be switched on or off.

- To switch Bluetooth off  
Select  (blue icon) on the taskbar and select [Disable Bluetooth].  
 turns .
- To switch Bluetooth back on  
Select  (blue icon with red prohibition symbol) and select [Enable Bluetooth].

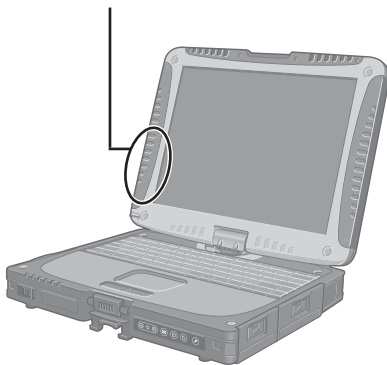
## CAUTION

Communications are conducted via a Bluetooth antenna. Do not do anything to block the radio waves, for example by obstructing the antenna segment with your hand.

## NOTE

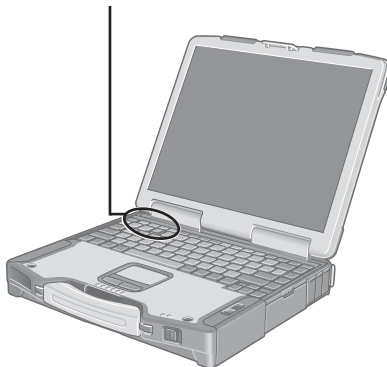
- Communication speeds and distances may vary depending on surrounding conditions, such as the other device sending or receiving communications and the installation environment.
- It is a characteristic of radio waves that communication speeds will tend to decrease as the communication distance increases. We recommend that communications between Bluetooth devices be conducted in as close proximity as possible.
- Communication speeds may decrease if a microwave oven is being used nearby.

Bluetooth Antenna



CF-18 Series

Bluetooth Antenna



CF-29 Series

Bluetooth Antenna



CF-73 Series

# Connecting to Bluetooth Devices

## Installing Bluetooth Driver

Perform the following procedure after completing the first-time use operation (☞ Operating Instructions “First-time Operation”).

### NOTE

- When [Found New Hardware Wizard] is displayed, select [Cancel].
- <For MUI (Multilingual User Interface) OS version>  
Install the driver before you change the setting of language. If you have already changed it, set the language to the default values in the following menu. After the installation completes, change the setting of language.  
**Windows 2000**  
[Start] - [Settings] - [Control Panel] - [Regional Options]
  - [Your locale (location)] - [English (United States)]
  - [Menus und dialogs] - [English]**Windows XP**  
[Start] - [Control Panel] - [Date, Time, Language and Regional Options] - [Regional and Language Options]
  - [Regional Options] - [Standards and Formats] - [English (United States)]
  - [Languages] - [Language used in menus and dialogs] - [English]

### Windows 2000

- 1** Connect the CD drive (optional), and install the driver if necessary.
- 2** Place the Bluetooth Software CD-ROM into the CD drive.
- 3** Select [Start] - [Run], enter “d\*:\btw\setup.exe”, and then select [OK].
- 4** At [Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...], select [Next].
- 5** After reading the license agreement, select [I accept the terms in the license agreement], and select [Next].
- 6** At [Destination Folder], select [Next].
- 7** At [Ready to Install the Program], select [Install].
- 8** At [Driver Signature Notice], select [OK].
- 9** At [InstallShield Wizard Completed], select [Finish].
- 10** Select [Yes] to restart the computer.
- 11** Select [Start] - [My Bluetooth Places].
- 12** Select the locations where you want the icon to appear, and select [Next].

**13** Enter the computer name, set [Computer type] to [Laptop], and then select [Next].

**14** Select [Next].

**15** At [Choose the services that this computer will offer:], select [Next].

**16** Select [Skip].

**17** Select [Finish].

**18** Select [Start] - [Run], enter “d\*:\btswitch\setup.exe”, and then select [OK].

**19** At [Welcome to the InstallShield Wizard for Bluetooth Switch...], select [Next].

**20** Select [Yes, I want to restart my computer now], and select [Finish].

The computer will restart.

**21** Remove the CD-ROM and the CD drive.

\* “d” is the drive letter of the CD drive. You can change the letter to suit your preference.

#### Windows XP

**1** Connect the CD drive (optional), and install the driver if necessary.

**2** Place the Bluetooth Software CD-ROM into the CD drive.

**3** Select [Start] - [Run], enter “d\*:\btw\setup.exe”, and then select [OK].

**4** At [Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...], select [Next].

**5** After reading the license agreement, select [I accept the terms in the license agreement], and select [Next].

**6** At [Destination Folder], select [Next].

**7** At [Ready to Install the Program], select [Install].

**8** At [Driver Signature Notice], select [OK].

**9** At [InstallShield Wizard Completed], select [Finish].

**10** Select [Start] - [All Programs] - [My Bluetooth Places].

# Connecting to Bluetooth Devices

- 11** Select the locations where you want the icon to appear and select [Next].
- 12** Enter the computer name, set [Computer type] to [Laptop], and then select [Next].
- 13** Select [Next].
- 14** At [Choose the services that this computer will offer:], select [Next].
- 15** Select [Skip].
- 16** Select [Finish].
- 17** Select [Start] - [Run], enter “d\*:\btswitch\setup.exe”, and then select [OK].
- 18** At [Welcome to the InstallShield Wizard for Bluetooth Switch...], select [Next].
- 19** Select [Yes, I want to restart my computer now], and select [Finish].  
The computer will restart.
- 20** Remove the CD-ROM and the CD drive.

\* “d” is the drive letter of the CD drive. You can change the letter to suit your preference.


## Connecting


### NOTE

Make the required settings to connect to the desired Bluetooth devices beforehand. (e.g., installing a printer driver for the desired printer.)

### <Example>

When connecting to Bluetooth printer using the Serial Port Profile:

- 1** Double-click  on the desktop.
- 2** Select [Bluetooth] from the menu and select [Advanced Configuration] - [Client Applications], then double-click [Bluetooth Serial Port].  
The [Bluetooth Properties] screen\*<sup>1</sup> is displayed.  
Make a note of the Bluetooth serial port number (e.g., COM7)\*<sup>2</sup> displayed in [COM Port]. This is necessary for the setting on page 7.
- 3** Remove the check mark from [Secure Connection], and select [OK].

- 4** Select [OK].
- 5** Right-click  on the taskbar, and select [Quick Connect] - [Bluetooth Serial Port] - [Find Devices].
- 6** Select the desired Bluetooth printer, and select [Connect].
- 7** When [Created connection shortcut...] is displayed, select [OK].
- 8** When [The Bluetooth serial port COM7\*<sup>2</sup> is now configured...] is displayed, select [OK].
- 9**
  - Windows 2000**  
Restart the computer by selecting [Start] - [Shut Down] - [Restart] - [OK].
  - Windows XP**  
Restart the computer by selecting [Start] - [Turn Off Computer] - [Restart].

## Bluetooth Serial Port

When you use the Bluetooth serial port service, you can establish connections between two Bluetooth devices via a virtual communication port. This means that you can handle connected devices in the same way as you would hard-wired connections. To establish a Bluetooth serial port connection, configure the serial port number of the selected device to the Bluetooth serial port number.

### ● Setting

<Example>

Set the serial port number of the desired printer to COM7\*<sup>2</sup>.

#### Windows 2000

- 1** Select [Start] - [Settings] - [Control Panel] - [Printers].
- 2** Right-click the desired printer and select [Properties] - [Ports]. Then select [COM7\*<sup>2</sup>], and select [OK].

#### Windows XP

- 1** Select [Start] - [Control Panel] - [Printers and Other Hardware] - [Printers and Faxes].
- 2** Right-click the desired printer and select [Properties] - [Ports]. Then select [COM7\*<sup>2</sup>], and select [OK].


\*<sup>1</sup> This screen may be displayed behind the [My Bluetooth Places] screen. In this case, minimize the [My Bluetooth Places] screen.

\*<sup>2</sup> This varies depending on the settings.

# Security Setting

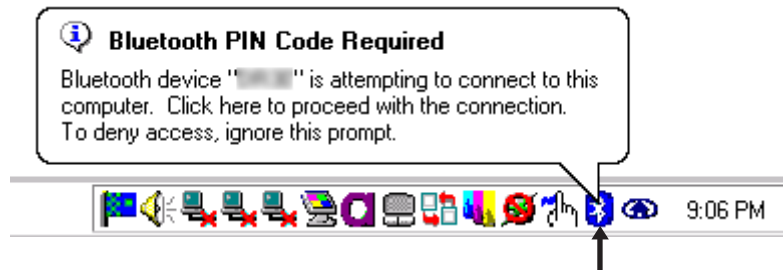
You can establish security settings for individual services.

To enable/disable the security setting:

- 1 Double-click  on the desktop.
- 2 Select [Bluetooth] from the menu, and select [Advanced Configuration] - [Client Applications].
- 3 Double-click the desired application name (service).
- 4 ● To enable:  
Add the check mark for [Secure Connection].  
● To disable:  
Remove the check mark from [Secure Connection].
- 5 Select [OK], then select [OK].

## PIN Code Request

If the security setting is enabled, when you try to connect to other Bluetooth devices, the following message will appear, and you will be asked for the PIN Code.



Click here and enter a PIN Code, then select [OK].

### NOTE

#### PIN Code

A PIN Code is a password for which you can set up to 16 alphanumeric characters. When establishing security settings, the PIN Code for the device to be connected (slave) must be the same as the PIN Code for the device where the connection originates (master).

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# Specifications

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Transmission method	FHSS system
Wireless channels used	Channels 1 to 79
RF frequency band	2402-2480 MHz

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