

1.4



USB / PCMCIA / CF Adapter

**Manual and
Application note**

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Introduction

Bluetooth is an open specification for a cutting-edge technology that enables short-range wireless connections between desktop and laptop computers, personal digital assistants, cellular phones, printers, scanners, digital cameras and even home appliances — on a globally available band (2.4GHz) for worldwide compatibility. In a nutshell, Bluetooth unplugs your digital peripherals and makes cable clutter a thing of the past. Now you can connect your PDA or PC to Bluetooth™ enabled mobile phone with this Bluetooth™ adapter.

You can access e-mail & Internet no matter where you are with just a little help from your Bluetooth™ mobile phone.

Plus, when you are back in the office, you can hook yourself up to your office network as well as communicate with other Bluetooth™-enabled devices.



Chapter1

Package

- One Bluetooth adapter
- One driver and software disk
- This user manual

Features

- Bluetooth v1.1 compliant
- USB Bluetooth adapter support full speed USB v1.1 Interface.
- CF Bluetooth adapter complies with CompactFlash type I Interface.
- PCMCIA Bluetooth adapter complies with PC Card Standard, including PCMCIA release 2.1 and JEIDA 4.x standards.
- Wireless communication within a radius of 32 Feet (10 Meters) for Class 2 Bluetooth devices.
- Wireless communication within a radius of 328 Feet (100 Meters) for Class 1 Bluetooth devices.
- Connect up to 7 different Bluetooth enabled devices
- Encryption and authentication to ensure safe, secure communications
- Low power consumption

Specifications

Main chip: CSR BlueCore 02

Protocol: Bluetooth 2.4 GHz ISM band frequency hopping

Data Rate: 721 Kbps

Connect up to 7 devices in a **Piconet**

Antenna: Integrated inside the adapter

0dBm(Class 2) Bluetooth radio:

Connection within a range of up to 32 feet (10 meters)

Class1 Bluetooth radio:

Connection within a range of up to 328 feet (100 meters)

Sensitivity: -80dbm at 0.1% Bit Error Rate (BER)

Security: encrypted link, authentication

Bluetooth profile support includes:

Generic Access Profile (**GAP**)

Serial Port Profile (**SPP**)

Service Discovery Application Profile (**SDAP**)

Generic Object Exchange Profile (**GOEP**)

Object Push Profile (**OPP**)

File Transfer Profile (**FTP**)

Dial-up Network Profile (**DUN**)

LAN Access Profile (**LAP**)

Fax Profile (**FAX**)

Synchronization Profile

Headset Profile

Personal Area Network (**PAN**)

Human Interface Device (**HID**)

Hardcopy Cable Replacement Profile (**HCRP**)

Mechanics

USB Bluetooth Dimension:

58.6 x 19.8 x 8.1 mm (L x W x H) (for Class 2)

72.2 x 29.8 x 8.5 mm (L x W x H) (for Class 1 width including external antenna)

CF Bluetooth Dimension:

47.3 x 42.9 x 4.58 mm (L x W x H)

PCMCIA Bluetooth Dimension:

86 x 54 x 5 mm (L x W x H)

Certification

FCC, CE, BQB

Environmental Operating Ranges

·Temperature: 0 ~ 50%

·Humidity: 10 ~ 90%

Power Consumption

USB Bluetooth:

Typical: 40mA/5V

Maximum: 90mA/5V

CF Bluetooth:

Typical: 40mA/3.3V

Maximum: 90mA/3.3V

PCMCIA Bluetooth:

Typical: 70mA/5V

Maximum: 210mA/5V

Idle: 25mA/5V

LED Indication

CF adapter LED: Power on, Activity

PCMCIA adapter LED: Activity

Drivers support

USB Bluetooth:

Windows 98SE, Me, 2000, XP, MAC O.S. 10.2.x

CF Bluetooth:

Windows 98SE, Me, 2000, XP, PPC2000, PPC2002, PPC2003

PCMCIA Bluetooth:

Windows 98SE, Me, 2000, XP

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Chapter2

Setup for Windows 98SE/2000/ME/XP

Installing Bluetooth software for Windows

(1) Place installation CD into PC and the setup menu should launch automatically.

If the setup menu does not launch automatically, use Windows Explorer to navigate to the appropriate CD-ROM drive and run "**bsetup**".

(2) Select "**Install Drivers and Application Software**".



(3) Please select your device from the menu.



(4) Complete the following steps to install Bluetooth software:

(a) Exit all applications.

(b) InstallShield Wizard setup dialog box will automatically be displayed.

(c) Follow the instructions on screen:

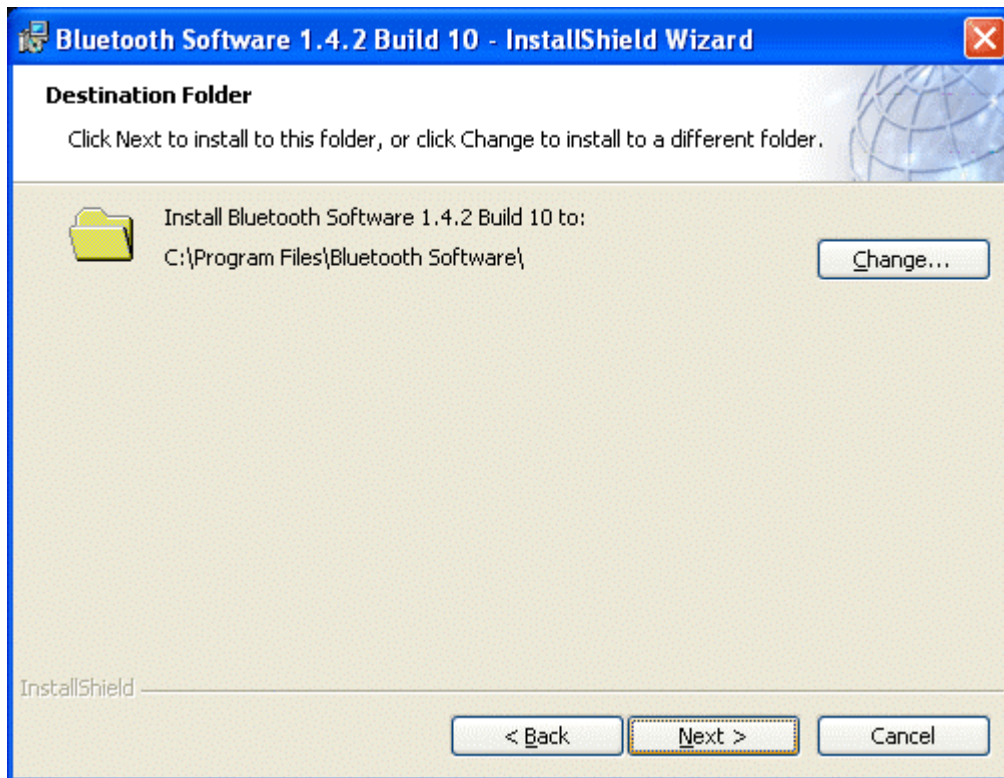
(d) On the *Welcome* screen, click the “**Next**” button.



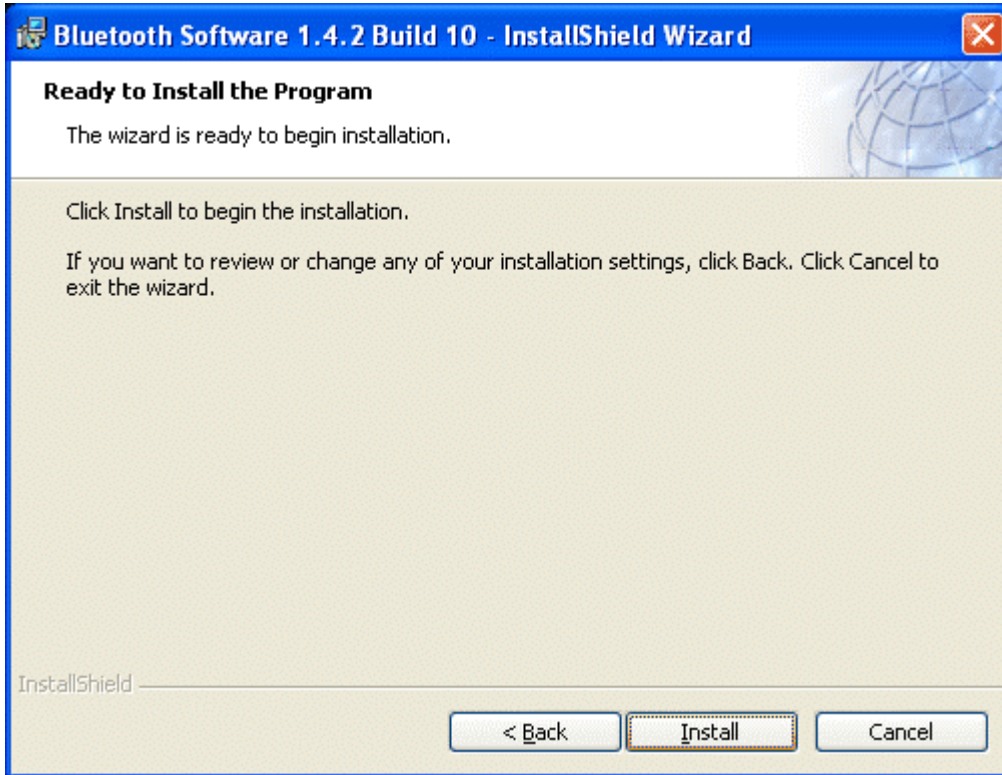
(e) When the *License Agreement* screen is displayed, read the License Agreement, then click the radio button to the left of **"I accept the terms in the license agreement"** and click the **"Next"** button.



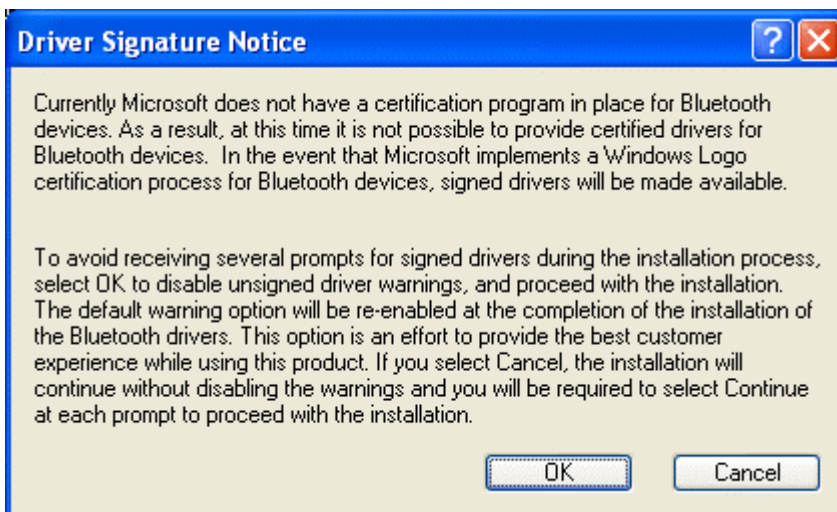
(f) You can choose the destination folder in your system, if you do not want to change the destination folder please click **Next**. On the *Destination Folder* screen, click the **Change** button to browse to a new destination folder for the Bluetooth software. Otherwise, click the **Next** button to accept the default folder.



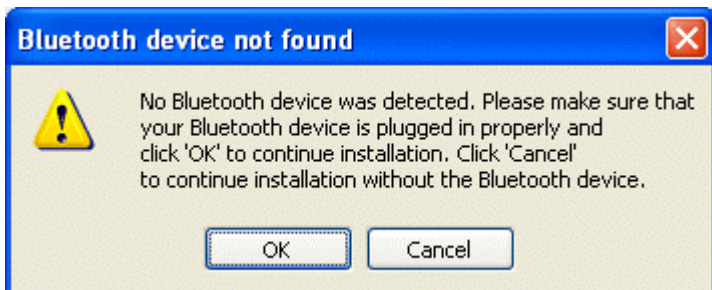
(g) The system is ready to install the Bluetooth software. If you need to review or change any settings, click the "Back" button. Click the "Cancel" button to exit the Wizard. Otherwise, click the "Install" button.



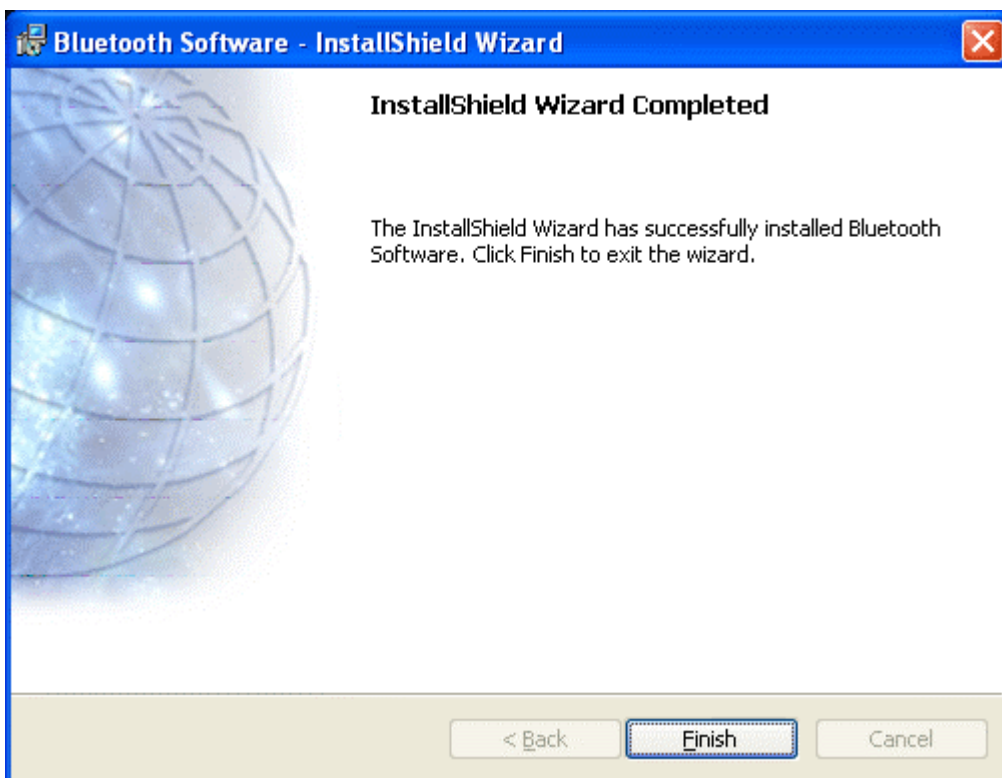
(h) For Windows 2000/XP users, system will popup a "Driver Signature Notice", please click the "OK" button.



(i) During the installation, system will try to detect your Bluetooth device, please plug in your Bluetooth device when the following message is displayed. Then click "**OK**" to continue, or you can click "**Cancel**" to continue the installation without the Bluetooth device.



(j) When the installation is completed, please click the "**Finish**" button.



For more information of Bluetooth software Configuration & User's Guide, please refer to Chapter 3 of this application note.

Setup for Mac

Mac O.S.X 10.2

Mac O.S. 10.2.x has build-in Bluetooth software for USB Bluetooth adapters, therefore no additional Bluetooth software is required. Simply plug in the USB Bluetooth adapter and a Bluetooth icon will appear in the System folder. Open the Bluetooth applet to configure the Bluetooth functions on your Mac system.

Chapter3

Application note for Windows 98SE/ME/2000/XP

3.1 Icons used for Bluetooth devices and services































Bluetooth icons provide at-a-glance feedback about a device or service's status by changing appearance.

The Bluetooth icon in the Windows system tray provides feedback about Bluetooth status.

Basic Bluetooth Icon

Bluetooth Icon Indicates Bluetooth Status		
Enabled	Disabled	Connected
		
Blue with White	Blue with Red	Blue with Green

Device Icons for Windows 98SE, Me and 2K

Device Icons for Windows 9x, Me and 2K			
Name	Normal	Connected	Paired
Audio Gateway			
Desktop			
Headset			
Laptop			
Modem			
Network Access Point			
Personal Digital Assistant			
Printer			
Telephone			
Unknown			

Service Icons for Windows 98SE, Me and 2K




























Service Icons for Windows 9x, Me and 2K			
Name	Normal	Connected	Not Available*
Audio Gateway			
Dial-up Networking			
Fax			
Headset			
Network Access			
PIM Item Transfer			
PIM Synchronization			
Public Folder			
Serial Port			

*Services may be unavailable because they are in use or because the necessary hardware is not installed.

Device Icons for Windows XP

Device Icons for Windows XP			
Name	Normal	Connected	Paired
Audio Gateway			
Desktop			
Headset			
Laptop			
Modem			
Network Access Point			
Personal Digital Assistant			
Printer			
Telephone			
Unknown Device			

Service Icons for Windows XP

Service Icons for Windows XP			
Name	Normal	Connected	Not Available*
Audio Gateway			
Dial-up Networking			
Fax			
Headset			
Network Access			
PIM Item Transfer			
PIM Synchronization			
Public Folder			
Serial Port			

*Services may be unavailable because they are in use or because the necessary hardware is not installed.

NOTE: Only available services are displayed in the menus

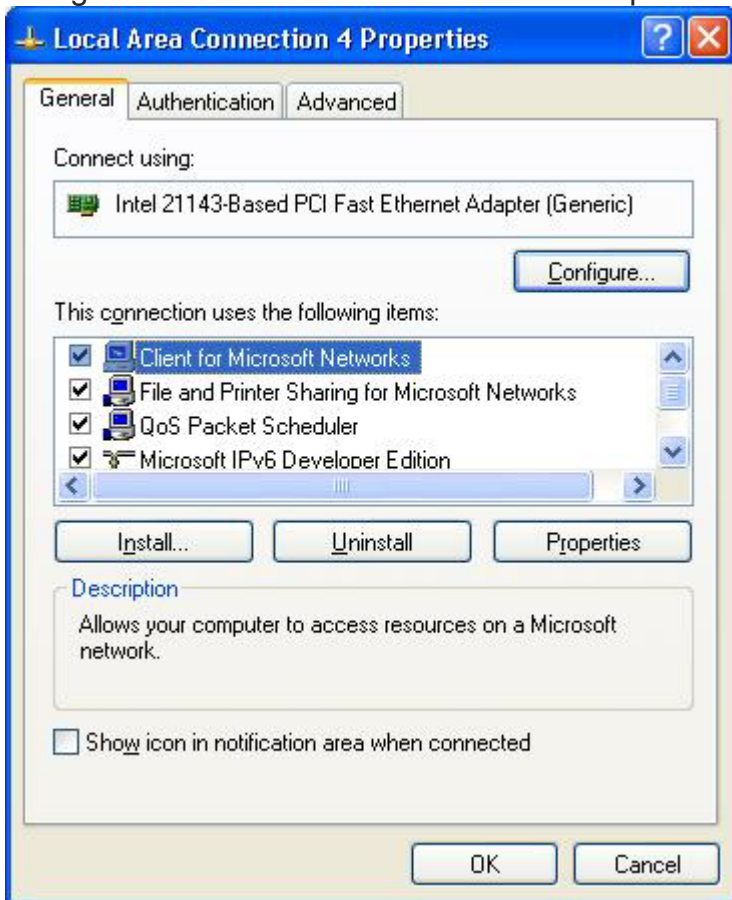
3.2. Network sharing setting for Windows

The Network Access service permits a Bluetooth enabled PC (client) to access the Internet via another Bluetooth enabled PC (Server) that already has an Ethernet connection.

Windows network sharing setting

PC to PC (Windows 2000 or Windows XP)

1. To enable Internet Connection Sharing on the server PC
2. Click on **Start menu-->Settings -->Network and Dial-up Connections** and find your Local Area Connection (LAN) that is connected to the Internet.
3. Right click the active LAN connection to open the "**Properties**" dialog box.



4. Click on **"Advanced"** tab and select the **"Internet Connection Sharing"** checkbox to enable Internet sharing.

