1.4



USB / PCMCIA / CF Adapter

Manual and

**Application note** 

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#### CHAPTER5

How to pair with my mobile phone 89



## 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<sup>™</sup> enabled mobile phone with this Bluetooth<sup>™</sup> adapter.

You can access e-mail & Internet no matter where you are with just a little help from your Bluetooth<sup>™</sup> 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<sup>™</sup>-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

2

## 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.

🖟 Bluetooth Software 1.4.2 Build 10 - InstallShield Wizard 🛛 🛛 🔀			
California -	Welcome to the InstallShield Wizard for Bluetooth Software 1.4.2 Build 10		
	The InstallShield(R) Wizard will install Bluetooth Software on your computer. To continue, click Next.		
	WARNING: This program is protected by copyright law and international treaties.		
	< Back Next > Cancel		

(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.

🖟 Bluetooth Software 1.4.2 Build 10 - InstallShield Wizard 🛛 🔀
License Agreement Please read the following license agreement carefully.
BLUETOOTH ("BLUETOOTH") IS WILLING TO LICENSE THE BLUETOOTH SOFTWARE ACCOMPANYING THIS LICENSE AGREEMENT (THE "SOFTWARE") TO YOU ONLY ON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS IN THIS AGREEMENT. PLEASE READ THE TERMS CAREFULLY. BY CLICKING ON THE "I ACCEPT THE TERMS OF THIS LICENSE AGREEMENT" BUTTON YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT AND AGREE TO BE
<ul> <li>I accept the terms in the license agreement</li> <li>I do not accept the terms in the license agreement</li> <li>InstallShield <a href="https://wext.solution.com">Kext solution.com</a></li> <li>Cancel</li> </ul>

(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.

🔀 Bluetoo	th Software 1.4.2 Build 10 - InstallShield Wizard 🛛 🛛 🔀
<b>Destinati</b> Click Nex	on Folder At to install to this folder, or click Change to install to a different folder.
	Install Bluetooth Software 1.4.2 Build 10 to: C:\Program Files\Bluetooth Software\
InstallShield –	< <u>B</u> ack <u>N</u> ext > Cancel

(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.

🖟 Bluetooth Software 1.4.2 Build 10 - InstallShield Wizard	
<b>Ready to Install the Program</b> The wizard is ready to begin installation.	(A)
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. exit the wizard.	Click Cancel to
InstallShield	Cancel

(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.

Bluetoo	th device not found
1	No Bluetooth device was detected. Please make sure that your Bluetooth device is plugged in properly and click 'OK' to continue installation. Click 'Cancel' to continue installation without the Bluetooth device.

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

🖟 Bluetooth Software - Ins	tallShield Wizard 🛛 🛛 🔀
CARE .	InstallShield Wizard Completed
	The InstallShield Wizard has successfully installed Bluetooth Software. Click Finish to exit the wizard.
	< <u>B</u> ack <b><u>Finish</u></b> Cancel

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.

# 3

## 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** 

Blueto	oth Icon Indicat	es Bluetooth	Status
Enabled	Disab	oled	Connected
8			8
Blue with White	Blue wit	th Red	Blue with Green
Device Icons for Wir	ndows 98SE, Me	and 2K	
De	vice loons for Wind	ows 9x, Me and 2	K
Name	Normal	Indicates Bluetooth Status Disabled Connected Blue with Red Blue with Green SE, Me and 2K for Windows 9x, Me and 2K nal Connected Paired Connected Connected Paired Connected Co	
Audio Gateway			
Desktop			
Headset			
Laptop	Ľ		2
Modem	<u> </u>		
Network Access Point	1 ∟		
Personal Digital Assistant			
Printer			
Telephone			
Unknown	?	8	

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	2	-	-	
Fax	C)	<b>\$</b>	<b>S</b>	
Headset				
Network Access	- E			
PIM Item Transfer	<b>A</b>			
PIM Synchronization				
Public Folder				
Serial Port	3	2	, I	
*Services may be unavailable b	ecause they are in use or	because the necessary has	rdware is not installed.	

## Device Icons for Windows XP

Device Icons for Windows XP					
Name	Normal	Connected	Paired		
Audio Gateway	5		S.		
Desktop			<b>M</b>		
Headset					
Laptop					
Modem	<b>\$</b>				
Network Access Point	-	- Angel - Ange	đ.		
Personal Digital Assistant					
Printer	Ś				
Telephone	1				
Unknown Device	8				

Service Icons for Windows XP

	Service Ico	ns for Windows XP	
Name	Normal	Connected	Not Available*
Audio Gateway			
Dial-up Networking			
Fax			
Headset			
Network Access			
PIM Item Transfer	<b>P</b>		
PIM Synchronization			
Public Folder	1		
Serial Port			
*Services may be unavailab	le 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.

Local Area C	onnectio	on 4 Prop	erties		?
General Authen	ication A	dvanced			
Connect using:					
🕎 Intel 2114	3-Based P	CI Fast Ethe	ernet Ada	pter (Generio	c)
				Configu	re
This connection	uses the f	ollowing item	IS:	<u></u>	
Client fr	r Microsof	t Networks			~
🗹 📮 File and	Printer Sk	haring for Mid	crosoft N	etworks	B
🗹 📮 QoS Pa	cket Sche	eduler		0.4040700000	
Microso	ft IPv6 De	veloper Edit	ion		~
<		1111			>
Install		Uninstall		Properti	es
		<u></u>		1 Tobera	
Description					
Allows your co	imputer to	access reso	ources on	a Microsoft	
network.					
2					
Show icon in	notificatio	n area when	connect	ed	
				1070	
			OK		Cancel

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

	Authentication Advanced
Intern	net Connection Firewall
∎ a	rotect my computer and network by limiting or preventing ccess to this computer from the Internet
Lear	n more about Internet Connection Firewall.
Intern	net Connection Sharing
	llow other <u>n</u> etwork users to connect through this omputer's Internet connection
Al 🔽	llow other network users to control or disable the hared Internet connection
Lear	n more about Internet Connection Sharing.