

AmbiCom Bluetooth Solutions

User Manual for Win98SE

June 25, 2002

1. Introduction

This user manual covers the product features, release notes, installation procedures, and operating procedures for AmbiCom's Bluetooth applications.

Bluetooth wireless technology is a global standard for low-cost and low-power small form factors to connect multiple devices such as computers, mobile phones, PDAs, printers, LAN and WANs to each other. It provides fast and reliable digital transmission of both voice and data over 2.4GHz ISM open band. AmbiCom's Bluetooth wireless technology offers the following features:

• Cable Replacement

Establishes a wireless Personal Area Network with other Bluetooth devices within the operating range, without the hassles of wiring and configuration.

- Ad-hoc Networking Supports both data and voice between two or more devices wirelessly.
- Secure Wireless Connections Built-in authentication, encryption and authorization applications ensure secure information access and transmission.
- LAN and WAN Access Points LAN and WAN access such as Web, email, E-commerce, and VPN.

2. Product Features

With AmbiCom's Bluetooth CompactFalsh Card with PCMCIA adapter, USB Adapter or UART Adapter and Bluetooth software, you can establish wireless connections between your computer and other Bluetooth wireless devices. The features include:

- Device Discovery
- Name Discovery
- Service Discovery
- File Transfer
- Object Push for files, objects and business cards
- Blue Chat that allows users to instantly send and receive text messages
- Internet Access through Dial-Up Networking
- Connection to LAN through LAN Access Point

AmbiCom provides Bluetooth Neighborhood software application that integrates all of the above features into one single application.

3. Release Notes

- We support Windows 98SE on this release
- This release supports the AmbiCom Bluetooth CompactFlash, USB Dongle, USB module, and UART Adapter.
- SIG 1.1 compliant Bluetooth protocol stack.

- We support Device Discovery, Name Discovery, Service Discovery, Pairing, Object Push, File Transfer, Dial-Up and LAN access Networking in this release.
- Audio is not supported in this release.
- When two devices are performing Device Discovery at the same time, they will not discover each other. Please do not run Bluetooth Neighborhood at the same time.

4. Installation Procedures for Windows 98SE

Important Notes: Make sure you have installed the Dcom 98.exe from Microsoft on your Win98SE system before you install the AmbiCom Bluetooth software.

- 1. Insert the AmbiCom Bluetooth Installation CD into your laptop CD-ROM drive.
- 2. Run AmbiCom Bluetooth **Setup.exe** and follow the on-screen instruction to install the application program.
- 3. The following window will appear at the start of the installation process:

InstallShield Wizard	×
Choose Transport Select which type of Bluetooth radio will be connected to your computer.	AmbiCom
AmbiCom Bluetooth Device Selection	
CompactFlash Card	
C USB Adapter	
C UART Adapter	
InstallShield	
< <u>B</u> ack	<u>N</u> ext > Cancel

4. Choose the device you have and click "Next" to continue. Simply follow the on-screen instructions. At the end of the installation, the system will pop up several windows to install some devices. This is because the system is installing some virtual devices for the software to use. Please be patient and wait until the system finishes.

5. After the system is finished installing the virtual devices, please click Finish to reboot your system.

InstallShield Wizard	
AmbiCom	InstallShield Wizard Complete Setup has finished installing AmbiCom Bluetooth Neighborhood on your computer. (*) Yes, I want to restart my computer now. (*) No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
	< Back. Finish Cancel

6. After you have restarted your laptop, please connect your **AmbiCom Bluetooth CompactFlash, USB or UART Adapter to** your laptop. The system will automatically install the driver for you. After the system installed the driver you need reboot your system. Now you are ready to execute Object Push, File Transfer and Blue Chat by using Bluetooth Neighborhood. Please see the section "How to Run Bluetooth Neighborhood" and skip the following steps. If you want to use the Dial-up Networking and LAN Access, please observe the following steps.

Installation Procedures for Dial-Up Networking

If you have a Bluetooth phone/modem, we recommend that you continue installing the corresponding components.

Note:

During the software installation, you will see several modems installed in your system. You can go to **Device Manager**, click **Modem** to view all the modems. For Dial-Up and LAN Access networking, we will use those modems to set up.

System Properties ?X
General Device Manager Hardware Profiles Performance
• View devices by type • View devices by connection
Computer BtE si CDROM CDROM CDROM CDB Disk drives CDsplay adapters Floppy disk controllers Hard disk controllers Hard disk controllers Hard disk controllers Bluetooth DUN Client Bluetooth DUN Host Bluetooth LAN Client Bluetooth SERIAL Monitors
Properties Refresh Remove Print
OK Cancel

1. From **Control Panel**, go to **Dial-up Networking** and **create a New Connection** for Bluetooth Dial-Up Networking. Following the on-screen instructions to set up a connection for the Bluetooth Dial-up Networking. During the setup, the system will ask you to select a modem for dial-up, please select the modem *Bluetooth DUN Client*. Click Next.

2. Click Next.



3. Click Next.

Make New Connection	×
	Type the phone number for the computer you want to call: Area code: Ielephone number: 408 • 555-1212 Country or region code: United States of America (1) •
	< <u>B</u> ack <u>N</u> ext > Cancel

4. Click Finish.



Follow the on-screen instructions to complete the setup.

Installation Procedures for LAN Access

1. For LAN Access, the installation procedure is almost identical to dial-up networking. The only difference is under "Make New Connection", choose "Bluetooth LAN Client" instead.

Make New Connection		×
	Type a name for the computer you are dialing: BlueLAN Select a device: Bluetooth LAN Client Configure	-
	< <u>B</u> ack <u>N</u> ext > Cancel	

Click "**Next**" to continue the installation.

5. How to Run Bluetooth Neighborhood

- 1. You will find a Bluetooth Neighborhood shortcut on your Desktop.
- 2. Upon opening Windows Explorer, you will find the "Bluetooth Neighborhood" icon. Double-click on it and Bluetooth Neighborhood will start to run. You can see a Bluetooth Neighborhood GUI at the right-hand side of Windows Explorer, and the window "Device Discovery" will appear. When it finds all the Bluetooth devices within the operating range, the "Device Discovery" window will disappear. The discovery process includes device discovery and name discovery.



3. After finding the devices, you can click on one of the devices and its services and capabilities will be listed. In the Device List Window (at the right of Windows Explorer), the first device is always the local device.



Security Mode

- 1. Our software provides two levels of security mode: security level 1 and security level 3. At security level 3, a PIN code will be required when other Bluetooth enabled devices try to connect with you. The PIN code entered needs to be the exact same one entered on both machines. This will give you more security. If you set your PC in security level 1, then there is no PIN code needed.
- 2. You can go to Bluetooth Neighborhood to set the security level. Choose "Local Device", click the right button of your mouse, and then select "Property". You will see the following window.

AmbiCom Bluetooth Neighborhood	<
General Inbox About	
Friendly Name : G9U3J6	
Device Class : Laptop 💌	
Device Address : 00:80:37:16:31:F7	l
Status : Local Device	
Security Option: Bluetooth Security Mode 3 Bluetooth Security Mode 1 Bluetooth Security Mode 3	
OK Cancel Apply	

Access Mode

- 1. Our software provides three options of access mode: discoverable&connectable, nondiscoverable&connectable and non-discoverable&non-connectable. At the discoverable& connectable mode, you will allow the other Bluetooth enabled devices to find and connect to you. At other two options, you will allow them to find you, but cannot connect to you. Or they cannot find you nor connect to you.
- 2. You can go to Bluetooth Neighborhood to set the Access mode. Select Local Device, click the right button of your mouse and select "Property". You will see the following window.

ļ	AmbiCom Bluetooth Neighborhood	×
	General Inbox About	
	Friendly Name : AmbiCom	
	Device Class : Laptop PC	
	Device Address : 00:80:37:16:70:BC	
	Status : Local Device	
	Security Option: Bluetooth Security Mode 1	
	Access Mode: discorverable&connectable	
	discorverable&connectable	
	non-discorverable&connectable Otnon-discorverable&non-connectable	

Exchange vCards

 When you perform Exchange vCard, you need to go to the local device's property to set up "My Business Card" path first, as shown in the following window. The default path is "C:\BTInbox".

AmbiCom Bluetooth Neighborhood
General Inbox About
Inbox Path : c:\BTInbox
My Business Card: c:\BTInbox\VCard.vcf
Ask Permission to Receive Files
OK Cancel Apply

2. Then you click the device that you want to exchange vCard with. You will see the following window. Click on "Exchange vCards", and you will send your business card to this device, also you will get his business card to your device.



Object Push

1. Before you perform Object Push, Please set up your Inbox path first. This directory will save files that you receive. The default path is "C:\BTInbox".

AmbiCom Bluetooth Neighborhood	<		
General Inbox About			
Inbox Path : c:\BTInbox			
My Business Card: c:\BTInbox\VCard.vcf			
Ask Permission to Receive Files			
OK Cancel Apply			

2. When you perform Object Push, simply **Drag** the file that you want to send, and **Drop** it to the Bluetooth Device that you want to receive on the left hand side in Windows Explorer. You also can use **Copy** and **Paste** to do the object transfer between two Bluetooth devices. When you perform Object Push, you will see a dialog box indicating the status like the window below.

AmbiCom Bluetooth Neighborhood		
OBEX Object Push Receive Files		
screen14.rtf Done %52 total 249852 of 478494 Bytes		
Cancel		

File Transfer

1. To execute File Transfer, open Windows Explorer, select "Bluetooth" on the menu bar and click on "File Transfer Client" or "File Transfer Server". To activate File Transfer on both ends, the application on the remote computer also needs to run File Transfer at the same time.

	Click it to run File Transfer Client or Server	
🙉 Exploring - Bluetooth Neighborh	nood	۱×
<u>File E</u> dit <u>V</u> iew <u>G</u> o F <u>a</u> vorites	Iools Bluetooth Help	
Back Forward Up D	Device Discovery Name Discovery Trust Device	
Address 🚯 Bluetooth Neighborhood	File transfer Client	•
Folders ×	Name File transfer server dress Class Security Status	
🧭 Desktop ⊕ 🛄 My Computer	E Blue Chat 16:34:F5 Laptop None Local Device	
⊕	00:80:37:16:70:C3 00:80:37:16:70:C3 Laptop None In Range	
 ➡ Network Neighborhood ➡ Ø Bluetooth Neighborhood ➡ Ø Recycle Bin ➡ Online Services 	SIMON 00:40:68:6B:0B:1A Desktop None In Range	
	Image: Constraint of the second se	
	JP	11

File Transfer Client Manager		
Local Device: a: c: BTInbox Program Files RECYCLED Scshot98 Simon Program Siles Simon Program Siles Simon Simon Simon Simon Simon Siles Simon Siles Simon Siles Simon Siles Simon Siles Simon Siles Simon Siles Simon Siles Simon Siles Si	==>	Directories to share for Bluetooth File Transfer: Name Path My Docum. c:\My Documents
Start Server OK	<==	

2. After you share the directory and files, you can select them and click the "Properties" button to configure those directory or files.

Share Properties
Permissions
Select the minimum default attributes for all Files and Subfolders of the shared directory. Files or folders with the "Read-Only" attribute set in the Operating System will continue to be Read-Only, regardless of the settings below.
N <u>o</u> rmal Files: Read Only - Cannot delete or modify files.
System Files: Hide - Files won't be listed in the folder contents.
Hidden Files: Hide - Files won't be listed in the folder contents. Read Only - Cannot delete or modify files.
Eolders: No Create - Files and subfolders may not be added. No Delete - The folder may not be deleted.
Authorization:
OK Cancel

In this window, you can define the attribute of the Directory or file that you shared, give the permission for the "File Transfer Client " to use.

3. When you click on the "File Transfer Client" menu to run it, the system will show a "Select Device to Connect" window for you to choose which device you want to connect.

Select Device to Conr	nect		×
Name	Address	Class	Sec
	00:10:7A:56:80:20	Laptop	No
•			►
🔲 Use As Default Cor	nect Device		
OK	Cancel		

4. After you select the remote device that runs the File Transfer Server, the following window will appear. You will see the directory and file shared by the File Transfer Server. You can get file or directory from the File Transfer Server or place file or directory to the File Transfer Server. Also, you can create new folder in the Shared Directory from File Transfer Server.

File Transfer Client						×
Remote Device (no connection):						
	Name			Size	Modified	Properties
Local Device		<u>G</u> et	<u>P</u> ut		<u>D</u> elete	New <u>F</u> older
a: a: BTInbox BTInbox Program Files RECYCLED Scshot98 win98.dsk B	 BTInbox My Documents Program Files RECYCLED scshot98 simon win98.dsk WINDOWS AUTOEXEC.BAT BOOTLOG.PRV BOOTLOG.TXT 	COMMAN CONFIG.S EDETLOG. FRUNLOG NGDOS MSDOS MSDOS.S MSDOS.S NETLOG. SCANDIS ESCANDIS ESCANDIS ESCANDIS ESCANDIS	D.COM SYS TXT G.TXT G.TXT SYS TXT K.LOG DG.TXT .G.TXT	i SUHI I SYSI I VIDE	DLOG.DAT TEM.1ST OROM.BIN	
						Exit

Blue Chat

1. To execute Blue Chat, open Windows Explorer, select "Bluetooth" on the menu bar and click on "Blue Chat." To have Blue Chat working on both ends, the application on the remote computer also needs to run Blue Chat at the same time.



2. After selecting "Blue Chat", the following window will appear, prompting you to choose the direction of the connection setup.

AmbiCon	n Blue Chat Setup	×
*	Blue Chat must be set up on two computers, one connecting to the other. The computer that allows the other to connect to it must be running Blue Chat first in order for Blue Chat to work properly.	
	Options I want to connect to another computer running Blue Chat.	
	C I want to allow another computer running Blue Chat to connect to me.	
	OK Cancel	

3. In the above window, two options are shown. You can either choose to connect to someone or wait for connection. If you want other people to communicate with you, simply select the lower checkbox and click "OK" and the following window will appear.

🕅 AmbiCom Blue Chat				×
	Local C	omputer		
	Remote	Computer		
Current Blue Chat Setup	: Bluetooth Legacy S	erial Host on COM5		
Exit Blue Chat	Blue Chat Setup	Disconnect	Connect	

4. If you want to connect to a remote device, select the first option, "I want to connect to another computer running Blue Chat," and click "OK" to see the following window. Click "Connect" to continue.

🔊 AmbiCom Blue Chat	×
Local Computer	
Remote Computer	
Current Blue Chat Setup: Bluetooth Legacy Serial Client on COM5	
Exit Blue Chat Setup Disconnect Connect	

5. The system will show the following window in which you can select which device you wish to connect. Upon selecting the desired device, click "OK" to establish the connection.

Select Device to Conr	nect		×
Name	Address	Class	Sec
	00:10:7A:56:80:20	Laptop	No
•			•
🔲 Use As Default Cor	nnect Device		
OK	Cancel		

6. Now the two Bluetooth devices can connect to each other. You can type any text message in the Local Computer dialogue window and see the corresponding message from the Remote Computer as well.

Dial-Up Networking

Note:

The requirement to set up Dial-up Networking is to provide the Internet Service Provider information (ISP); user name, password, and the phone number.

For some Bluetooth enabled devices such as **Cellular Phones**, before you perform Dial-up, you need to execute **Trust Device** first. The following window shows you how to do so. For phone configuration, you need set it to the **Ready to pair** mode. You can refer the phone manual. After you paired your phone with the Bluetooth device, the software will remember the trust profile. You don't need to do this every time when you execute the Dial-up networking.

On Nokia Cell Phone

You have to set the security level 3 in the Bluetooth Neighborhood. Choose "Local Device", click the right button of your mouse, and then select "Property". Select under **security option** "**Bluetooth Security Mode 3**" and then follow the wizard manual.

On Ericsson Cell Phone

Select menu Extra > Bluetooth> Paired devices > Add devices > Phone Accepts Click Yes to assign the phone name and will show *Ready to pair* mode

On the computer

After discover the phone, right click on the mouse and choose Trust Device. Insert the password.



On Ericsson Phone

• Click Yes on the phone to Add to paired devices > insert the Password click yes

On Computer

• Insert the PIN number in the computer (the same that you inserted the password on the phone)

On Phone

• Show Pairing successful

On Computer

Change the status to **Trusted** in the Bluetooth Neighborhood

1. After you have created a new connection, run AmbiCom Bluetooth Neighborhood application first. It will find all the Bluetooth devices within the range. If you find devices such as Bluetooth phone/modem or Dial-Up Networking Access Point, you can proceed to establish the connection you just created. The system will show the following window. Fill in the necessary information and click **Dial**.

🐴 Connect To		<u>? ×</u>
₽ L ⊘	BlueDUN	•
<u>U</u> ser name:	eln/ambicom	
<u>P</u> assword:	*****	
	Save password	
	Connect automatically	
Phone <u>n</u> umber:	9 5551212	
Dialing <u>f</u> rom:	New Location	l Properties
	Connect P <u>r</u> operties	Cancel

2. The system will now show the following window in which you can select the Bluetooth device you would like to connect. Click **OK** to establish an Internet connection to an ISP.

S	elect Device to Connect		2	4
	Name PicoBlue_800113 [192.168.1.45]	Address 00:02:EB:80:01:13 00:0A:D9:1D:5E:7A	L	
	ОК ОК	Cancel	۲	

3. In the above window, select T68 (The Phone name) and click OK to dial to ISP.

LAN Access

The setup procedures for LAN Access are almost identical to Dial-Up Networking. Please go to "Dial-up Networking" to establish a new connection. It is not necessary to provide the phone number, user name and password to establish the connection.

6. Uninstalling AmbiCom's Bluetooth Neighborhood

- 1. Please click "Start", go to "Programs", click "AmbiCom Bluetooth Neighborhood", and select "Uninstall Bluetooth Neighborhood", follow the screen instruction.
- 2. After rebooting your system, please go to "Device Manager" to find "BtEsi", and remove "AmbiCom Bluetooth Kernel".

7. Technical Support

Please visit AmbiCom Web site <u>http://www.ambicom.com</u> for online technical support. If you wish to speak to our support staff, please call 1-408-562-0168.



AmbiCom Bluetooth Solutions

User Manual for Win2000

June 25, 2002

1. Introduction

This user manual covers the product features, release notes, installation procedures, and operating procedures for AmbiCom's Bluetooth applications.

Bluetooth wireless technology is a global standard for low-cost and low-power small form factors to connect multiple devices such as computers, mobile phones, PDAs, printers, LAN and WANs to each other. It provides fast and reliable digital transmission of both voice and data over 2.4GHz ISM open band. AmbiCom's Bluetooth wireless technology offers the following features:

• Cable Replacement

Establishes a wireless Personal Area Network with other Bluetooth devices within the operating range, without the hassles of wiring and configuration.

- Ad-hoc Networking Supports both data and voice between two or more devices wirelessly.
- Secure Wireless Connections Built-in authentication, encryption and authorization applications ensure secure information access and transmission.
- LAN and WAN Access Points LAN and WAN access such as Web, email, E-commerce, and VPN.

2. Product Features

With AmbiCom's Bluetooth CompactFlash with PCMCIA adapter, USB Adapter or UART Adapter and Bluetooth software, you can establish wireless connections between your computer and other Bluetooth wireless devices. The features include:

- Device Discovery
- Name Discovery
- Service Discovery
- File Transfer
- Object Push for files, objects and business cards
- Blue Chat that allows users to instantly send and receive text messages
- Internet Access through Dial-Up Networking
- Connection to LAN through LAN Access Point

AmbiCom provides Bluetooth Neighborhood software application that integrates all of the above features into one single application.

3. Release Notes

- We support Windows 2000 on this release
- This release supports the AmbiCom Bluetooth CompactFlash, USB Dongle, USB Adapter, and UART Adapter.
- SIG 1.1 compliant Bluetooth protocol stack.

- We support Device Discovery, Name Discovery, Service Discovery, Pairing, Object Push, File Transfer, Dial Up and LAN access Networking in this release.
- Audio is not supported in this release.
- When two devices are performing Device Discovery at the same time, they will not discover each other. Please do not run Bluetooth Neighborhood at the same time.

4. Installation Procedures for Windows 2000

- 1. Insert the AmbiCom Bluetooth Installation CD into your laptop CD-ROM drive.
- 2. Run AmbiCom Bluetooth **Setup.exe** and follow the on-screen instruction to install the application program.
- 3. The following window will appear at the start of the installation process:

InstallShield Wizard	×
Choose Transport Select which type of Bluetooth radio will be connected to your computer.	AmbiCom
AmbiCom Bluetooth Device Selection	
CompactFlash Card	
O USB Adapter	
O UART Adapter	
Installomeid <u>Back</u>	<u>N</u> ext > Cancel

- 4. Choose the device you have and click **Next** to continue. Simply follow the on-screen instructions.
- 5. After you finished the installation, in the "Device Manager", you will see the following window.



In this window, you can see the **AmbiCom Bluetooth COM Bridge** has a question mark. This is OK because it is a special device and was designed to appear as such.

6. After you have restarted your laptop, please connect your AmbiCom Bluetooth CompactFlash, USB or UART Adapter to your laptop. The system will automatically install the driver for you. After the system installed the driver you need reboot your system. Now you are ready to execute Object Push, File Transfer and Blue Chat by using Bluetooth Neighborhood. Please see the section How to Run Bluetooth Neighborhood and skip the following steps. If you want to use the Dial-up Networking and LAN Access, please observe the following steps.

Installation Procedures for Dial-up Networking

If you have Bluetooth phone/modem, then you should continue to install the corresponding components.

1. Go to **Control Panel**, click on **Phone and Modem Options** to add a new mode for Bluetooth Dial-Up Networking.

Phone And Modem Options	<u>? ×</u>
Dialing Rules Modems Advanced	
The following modems are	installed:
Modem	Attached To
TOSHIBA Internal V.90 Modern	СОМЗ
<u>Add</u>	<u>R</u> emove <u>Properties</u>
0	K Cancel Apply

2. Click Add and you will see Add/Remove Hardware Wizard, Check the checkbox Don't detect my modem I will select it from a list. and click Next.

Add/Remove Hardware Wiz	ard
Install New Modem Do you want Windows to	o detect your modem?
	 Windows will now try to detect your modern. Before continuing, you should: 1. If the modern is attached to your computer, make sure it is turned on. 2. Quit any programs that may be using the modern. Click Next when you are ready to continue. Image: Don't detect my modern; I will select it from a list.
	< <u>B</u> ack <u>N</u> ext > Cancel

3. After you click **Next**, the following window will appear. Select **Standard 56000bps V90 Modem** as the Bluetooth modem. Click **Next** to continue.

Add/Remove Hardware Wizard
Install New Modem
Select the manufacturer and model of your modem. If your modem is not listed, or if you have an installation disk, click Have Disk.
Implementations Implementations [Bluetooth Modem Types] Implementation [Standard Modem Types] Implementation 3Com Standard 28800 bps Modem 3X Standard 33600 bps Modem Acceex Implementation Implementation Standard 56000 bps V30 Modem Standard 56000 bps V30 Modem Implementation Implementation Standard 56000 bps V30 Modem Implementation Implementation Implementation Implementation
< <u>B</u> ack <u>N</u> ext > Cancel

 After you click Next, the following window will appear asking you which COM Port you will use. Before selecting, you should go to Device Manager > Ports (COM & LPT) to find out which COM port is associated with "Bluetooth COM Port - DUN" (assume Com 4 for DUN).



Refer to the above window to select the correct COM Port for your Bluetooth DUN modem (assume COM 4 for DUN).

Add/Remove Hardware Wi	izard	
Install New Modem Select the port(s) you v	want to install the modem on.	
	You have selected the following modem: Standard 56000 bps V90 Modem On which ports do you want to install it? ○ All ports ⓒ Selected ports COM1 COM3 COM4 COM5 COM6	
	< <u>B</u> ack <u>N</u> ext > Cancel	

 Click Next to finish the modem installation. After you installed the Bluetooth Modem, Standard 56000bps V90 Modem, you can treat it as a normal modem. Now, you are ready to create a Dial-up networking connection through the Bluetooth Phone/Modem.

Installation Procedures for LAN Access

1. For the LAN Access, the installation procedure for modem is almost the same as Dial-up networking. The only difference is under installing new modem where you should select *Communications Cable between two computers.*

Add/Remove Hardware Wizard
Install New Modem
Select the manufacturer and model of your modern. If your modern is not listed, or if you have an installation disk, click Have Disk.
Manufacturers: Standard Modem Types) 3Com 3X Aceex Acer 4 Models: Communications cable between two computers Standard 300 bps Modem Standard 1200 bps Modem Standard 1200 bps Modem Standard 1900 bps Modem Standard 19200 bps Modem Manufacturers: Models: Communications cable between two computers Standard 300 bps Modem Standard 1200 bps Modem Manufacturers: Models: Communications cable between two computers Standard 1200 bps Modem Standard 19200 bps Modem Have Disk
< <u>B</u> ack <u>N</u> ext > Cancel

- 2. Click **Next** to continue the installation.
- 3. After you click **Next**, the following window will appear asking you which COM Port you will use. Before selecting, you should go to **Device Manager** to find out which COM port is associated with "**Bluetooth COM Port - LAN**".


Refer to the above window to select the correct COM Port for your Bluetooth LAN modem.

Add/Remove Hardware Wi	zard
Install New Modem Select the port(s) you v	vant to install the modem on.
	You have selected the following modem: Communications cable between two computers On which ports do you want to install it? All ports Selected ports COM1 COM3 COM5 COM6
	< <u>B</u> ack <u>N</u> ext > Cancel

4. After you install the *Communication cable between two computers*, you are ready to create a new network connection through LAN Access Point.

5. How to Run Bluetooth Neighborhood

- 1. You can find a shortcut on the Desktop Bluetooth Neighborhood.
- 2. Go to **Windows Explorer** and find the icon **Bluetooth Neighborhood**. Double-click on it to start the program. You can see a Bluetooth Neighborhood GUI at the right-hand side of Windows Explorer, and the window *Device Discovery* will appear. When it finds all the Bluetooth devices within the range, the *Device Discovery* window will disappear. The discovery process includes device discovery and name discovery.



3. After finding the devices, you can click one of the devices and see what services that device can provide. In the Device List Window (at the right-hand side of Windows Explorer), the first device is always the local device.

🔍 Bluetooth Neighborhood							<u>- 0 ×</u>
<u> </u>	Tool	ls Bluetooth <u>H</u> elp					-
	arch	Polders 🕉 Hist	ory 🚺				
Address 🚯 Bluetooth Neighborh	ood					•	∂Go
Folders	x	Name	Address	Class	Security	Status	
🕜 Desktop 🔄 🗠 My Documents			00:10:7A:56:80:32	Laptop	None	Local Device	
My Computer My Computer Local Disk (C:) Compact Disk (D:) System Compact Disc (E:) System Control Panel My Network Places Recycle Bin My Internet Explorer Bluetooth Neighborbood			00:10:7A:56:80:2E	Laptop	None	In Range	
TOSHIBA8000 		OBEX Object Dia Push Netwo	al Up LAN Acces: rk Client	s Seria	l Host	Serial Client	
Type: Application Size: 158 KB				158 KB		My Computer	/_

Security Mode

- 1. Our software provides two levels of security mode: security level 1 and security level 3. At security level 3, a PIN code will be required when other Bluetooth enabled devices try to connect with you. The PIN code entered needs to be the exact same one entered on both machines. This will give you more security. If you set your PC in security level 1, PIN codes will not be needed.
- 2. You can go to Bluetooth Neighborhood to set the security level. Choose the local device, rightclick it and select Property. You will see the following window.

AmbiCom Bluetooth Neighborhood 🔀
General Inbox About
Friendly Name : AmbiCom
Device Class : Laptop PC
Device Address : 00:80:37:16:70:BC
Status : Local Device
Security Option: Bluetooth Security Mode 1
Access Mode: Bluetooth Security Mode 1 Bluetooth Security Mode 3
OK Cancel Apply

Access Mode

- 1. Our software provides three options of access mode: discoverable&connectable, nondiscoverable&connectable and non-discoverable&non-connectable. At the discoverable& connectable mode, you will allow other Bluetooth enabled devices to find and connect to you. At other two options, you will allow them to find you, but cannot connect to you. Or they cannot find you nor connect to you.
- 2. You can go to Bluetooth Neighborhood to set the Access mode. Choose the local device, rightclick on it and choose Property. You will see the following window.

AmbiCom Bluetooth Neighborhood
General Inbox About
Friendly Name : AmbiCom
Device Class : Laptop PC
Device Address : 00:80:37:16:70:BC
Status : Local Device
Security Option: Bluetooth Security Mode 1
Access Mode: discorverable&connectable
discorverable&connectable
non-discorverable&connectable

Exchange vCards

 When you perform Exchange vCard, you need to go to the local device's property to set up "My Business Card" path first, as shown in the following window. The default path is "C:\BTInbox".

AmbiCom Bluetooth N	eighborhood 🗙
General Inbox Abo	ut
Inbox Path : c	:\BTInbox
My Business Card:	:\BTInbox\VCard.vcf
	Ask Permission to Receive Files
	OK Cancel Apply

 Now you click the device that you want to exchange vCard with. You will see the following window. Click "Exchange vCards" and you will send your business card to this device and vice versa.



Object Push

1. Before you perform Object Push, please set up your inbox path first. This directory will save files that you receive. The default path is "C:\BTInbox".

AmbiCom Bluetooth Neighborhood
General Inbox About
Inbox Path : c:\BTInbox
My Business Card: c:\BTInbox\VCard.vcf
Ask Permission to Receive Files
OK Cancel Apply

2. When you perform Object Push, simply Drag the file that you want to send and Drop it to the Bluetooth Device that you want to receive on the left side of Windows Explorer. You also can use Copy and Paste to do the object transfer between two Bluetooth devices. When you perform Object Push, the status will be shown on the following window.

AmbiCom Bluetooth Neighborhood						
OBEX Object Push Receive Files						
screen14.rtf Done %52 total 249852 of 478494 Bytes						
Cancel						

File Transfer

1. To execute File Transfer, open Windows Explorer, select **Bluetooth** on the menu bar and click on **File Transfer Client** or **File Transfer Server**. To activate File Transfer on both ends, the application on the remote computer also needs to run File Transfer at the same time.



2. The following window shows the File Transfer Server. In the File Transfer Server, you can select the directory or file on the left-hand side of the window and share it by using the arrow button to transfer it to the right-hand side of window. The directory or files in the right-hand side of the window are those that have been shared for the File Transfer Client to use.

File Transfer Client Manager				×
Local Device: a: c: My Documents Program Files FECYCLED Seshot98 Simon Win98.dsk C: WINDOWS e: e: e: e: e: e: e: e: e: e:	==>	- Directories to s	share for Bluetoot Path c:\My Documen	h File Transfer: ts
Start Server Stop Server		•	[Properties
ОК		(Cancel	

3. After you share the directory and files, you can configure them by clicking on the *Properties* button.

Share Properties
Permissions
Select the minimum default attributes for all Files and Subfolders of the shared directory. Files or folders with the "Read-Only" attribute set in the Operating System will continue to be Read-Only, regardless of the settings below.
Normal Files: Read Only - Cannot delete or modify files
<u>S</u> ystem Files: ☐ Hide - Files won't be listed in the folder contents.
Hidden Files: Hide - Files won't be listed in the folder contents. Read Only - Cannot delete or modify files.
Eolders: No Create - Files and subfolders may not be added. No Delete - The folder may not be deleted.
Authorization:
OK Cancel

In this window, you can define the attribute of the directory or file that you shared, give the permission for the *File Transfer Client* to use.

4. When you click the *File Transfer Client* menu to run it, the system will show a *Select Device to Connect* window for you to choose which device you want to connect.

Select Device to Conr	nect		×
Name	Address	Class	Sec
	00:10:7A:56:80:20	Laptop	No
•			►
🔲 Use As Default Cor	nect Device		
OK	Cancel		

5. After you select the remote device that runs the File Transfer Server, the following window will appear. You will see the directory and file shared by the File Transfer Server. You can get file or directory from the File Transfer server or place file or directory to the File Transfer Server. Also you can create new folder in the Shared Directory from File Transfer Server.

File Transfer Client					×
Remote Device (no connection):					
	Name		Size	Modified	Properties
Local Device a: BTInbox BTInbox How My Documents Program Files RECYCLED Scshot98 Simon How My Badsk WINDOWS	BTInbox My Documents Program Files FIES FIECYCLED Scshot98 Simon Simon Win98.dsk WINDOWS AUTOEXEC.BAT	Get COMMAND CONFIG.SY E DETLOG.T) FRUNLOG. FRUNLOG. NSDOS MSDOS.SY NETLOG.T) SCANDISK. SCANDISK. ■ SCANDISK.	Put .COM S S 'S S XT S XT .COG .TYT	Delete SUHDLOG.DAT SYSTEM.1ST /IDEOROM.BIN	New <u>Folder</u>
te:	BOOTLOG.TXT	SETUPXLG	i.TXT		Exit

Blue Chat

1. For Blue Chat, click *Blue Chat* on Bluetooth Menu on Windows Explorer Menu bar. To have Blue Chat working on both ends, the application on the remote computer also needs to run at the same time.

			(Click it to rur			
🔍 Bluetooth Neighborhood				Blue Chat			
File Edit View Favorites	Tools	Bluetooth	Help				-
📙 🗢 Back 🔹 🔿 👻 🗟 🧟 Sea	arch 🧣	Device D	iscovery	7			
Address 🚯 Bluetooth Neighborhd	bod	Trust De	vice /				▼ @Go
Folders	× 🔽	File trans	sfer Client	Address	Class	Security	Status
🚮 Desktop		File trans	sfer serv <i>e</i> r	00:80:37:16:70:0	3 Laptop	None	Local Device
My Pictures		Blue Cha	t Ó	00:40:68:6B:0B:1	A Desktop	None	In Range
⊕ , , , , , , , , , , , , , , , , , , ,	ſ	E AmbiCo	m Bluetoot	00:10:7A:56:80:9	8 LAN Access	None	In Range
Recycle Bin							
E - SIMON E - SIMON	Acce			-E	P	*	
		BEX Object Push	Dial Up Network	LAN Access	Serial Port F	File Transfer	
•	▶						
							1.

2. After you click *Blue Chat*, the following window will appear.

AmbiCor	n Blue Chat Setup	×
*	Blue Chat must be set up on two computers, one connecting to the other. The computer that allows the other to connect to it must be running Blue Chat first in order for Blue Chat to work properly.	
	Options [want to connect to another computer running Blue Chat.	
	 I want to allow another computer running Blue Chat to connect to me. 	
	OK Cancel	

3. In the above window, two options are shown. You can choose to either connect to someone or wait for connection. If you want other people to communicate with you, simply check the lower checkbox and click **OK** and the following window will appear.

<mark>*</mark>	AmbiCom Blue Chat	×
	Local Computer	
	Hemote Computer	
	Current Blue Chat Setup: Bluetooth Legacy Serial Host on CUM5	
		I
	Exit Blue Chat Blue Chat Setup Disconnect Connect	

4. If you want to connect to a remote device, check the first option. Click **OK** and the following window will appear.

AmbiCom Blue Chat			×
	Local	Computer	
	Remot	e Computer	
Current Blue Chat Setup	: Bluetooth Legacy	Serial Client on COM5	
	·,		
Exit Blue Chat	Blue Chat Setup	Disconnect	Connect

5. Now click **Connect**, the system will prompt you with the following window and you can select which device you want to connect.

Select Device to Connect			×
Name	Address	Class	Sec
	0 00:10:7A:56:80:20	Laptop	Nc
1			
Use As Default Co	onnect Device]	

6. Select the Bluetooth Device you want to connect and then click **OK**. The two Bluetooth devices now can connect to each other. You can type any text messages within the Local Computer window and you can see the messages from Remote Computer as well.

Dial-Up Networking

Note:

For some Bluetooth enabled devices such as **Cellular Phones**, before you perform Dial-up, you need to execute **Trust Device** first. The following window shows you how to do so. For phone configuration, you need set it to the **Ready to pair** mode. You can refer the phone manual. After you paired your phone with the Bluetooth device, the software will remember the trust profile. You don't need to do this every time when you execute the Dial-up networking.

On Nokia Cell Phone

You have to set the security level 3 in the Bluetooth Neighborhood. Choose "Local Device", click the right button of your mouse, and then select "Property". Select under **security option** "**Bluetooth Security Mode 3**" and then follow the wizard manual.

On Ericsson Cell Phone

Select menu Extra > Bluetooth> Paired devices > Add devices > Phone Accepts Click Yes to assign the phone name and will show *Ready to pair* mode

On the computer

After discover the phone, right click on the mouse and choose Trust Device. Insert the password.



On Ericsson Phone

• Click Yes on the phone to Add to paired devices > insert the Password click yes

On Computer

• Insert the PIN number in the computer (the same that you inserted the password on the phone)

On Phone

• Show Pairing successful

On Computer

• Change the status to **Trusted** in the Bluetooth Neighborhood

The requirement to set up Dial-up Networking is to provide the Internet Service Provider information (ISP); user name, password, and the phone number.

- 1. For Dial-Up Networking, please go to the **Control Panel** and find **Network and Dial-up Connections** to create a new connection. When you create the connection for the Dial-Up networking, please use the "*Standard 56000bps V90 Modem*" that you installed before. If you haven't installed that modem, please refer to the Installation section.
- 2. Choose "Dial up to private network", click Next

Network Connection Wizard		
Network Connection Type You can choose the type of network connection you want to create, based on your network configuration and your networking needs.		
 Dial-up to private network Connect using my phone line (modem or ISDN). 		
Dial-up to the Internet Connect to the Internet using my phone line (modem or ISDN).		
Connect to a private network through the Internet Create a Virtual Private Network (VPN) connection or 'tunnel' through the Internet.		
 Accept incoming connections Let other computers connect to mine by phone line, the Internet, or direct cable. 		
 <u>Connect directly to another computer</u> Connect using my serial, parallel, or infrared port. 		
< <u>B</u> ack <u>N</u> ext > Cancel		

3. Check the **Modem - Standard 56000bps V90 Modem** (assume COM4 for DUN) and click Next.

Network Connection Wizard
Select a Device This is the device that will be used to make the connection.
You have more than one dial-up device on your computer.
Select the devices to use in this connection:
Infrared Modem Port (SERIAL1-0)
Modem - Standard 56000 bps V90 Modem (COM4)
< <u>B</u> ack <u>N</u> ext > Cancel

4. Insert the ISP phone number click next

Network Connection Wizard
Phone Number to Dial You must specify the phone number of the computer or network you want to connect to.
Type the phone number of the computer or network you are connecting to. If you want your computer to determine automatically how to dial from different locations, check Use dialing rules.
Area code: Phone number: 4088890024
Country/region code:
Use dialing rules
< <u>B</u> ack <u>N</u> ext > Cancel

5. Check for all users (recommended) and click Next

Network Connection Wizard
Connection Availability You may make the new connection available to all users, or just yourself.
You may make this connection available to all users, or keep it only for your own use. A connection stored in your profile will not be available unless you are logged on.
Create this connection:
Eor all users
O Dnly for myself
< <u>B</u> ack <u>N</u> ext > Cancel

6. Create the name of the DUN Connection and check to add a shortcut to your desktop (Recommended)



6. After you have created a new connection, you should run AmbiCom Bluetooth Neighborhood application first. It will find the Bluetooth devices within the range. If you find devices such as Bluetooth phone/modem or Dial-Up Networking Access point, you can start the connection you just created by click the **AmbiCom Bluetooth DUN** icon in your desktop, the system will show the following window.

Connect AmbiC	om Bluetooth DUN	? ×
		ł
<u>U</u> ser name:	eln/ambicom	
<u>P</u> assword:	******	
	Save password	
Djal:	4088890024	•
<u>D</u> ial	Cancel Properties <u>H</u>	lelp

7. Click **Dial** and a window will appear for you to select the Phone, which Bluetooth device you want to connect.

Se	elect Devi	ce to Connect			×
	Blassa.	A data an	Class	Constitut	
	IName	Address	Class	Security	
	LUKIE	00:10:7A:4C:03:80	Laptop	None	
	T68	00:80:37:B1:45:7C	Cellphone	None	
		<u> </u>	Cancel		

8. In the above window, select T68 (The Phone name) and click **OK** to dial to ISP.

LAN Access

For LAN Access, the setup is almost identical to Dial-Up Networking. You need to create a **Communications cable between two computers** modem in your system. For details on how to install this modem, please refer to the Installation Section. When you have the **Communications cable between two computers** modem set up, please go to Network Connections to create a new connection. It is not necessary to provide phone number, user name and password to make the connection.

1. Go to Control Panel -> Network and Dial-up Connections, click *Make new Connection*, a *New Connection Wizard* window will appear. Click **Next** and you will see the following window.

Network Connection Wizard
Network Connection Type You can choose the type of network connection you want to create, based on your network configuration and your networking needs.
O Dial-up to private network Connect using my phone line (modem or ISDN).
Dial-up to the Internet Connect to the Internet using my phone line (modem or ISDN).
Connect to a private network through the Internet Create a Virtual Private Network (VPN) connection or 'tunnel' through the Internet.
 Accept incoming connections Let other computers connect to mine by phone line, the Internet, or direct cable.
 Connect directly to another computer Connect using my serial, parallel, or infrared port.
< <u>B</u> ack <u>N</u> ext > Cancel

2. Select the *Connect directly to another computer* option and click **Next** to continue the installation.

Network Connection Wizard
Host or Guest To connect two computers, specify which one you are using.
Choose the role you want for this computer: • Host This computer has the information you want to access. • Guest This computer will be used to access information on the host computer.
< <u>B</u> ack <u>N</u> ext > Cancel

3. Select the *Guest* option and click **Next** to continue.



- 4. Select the **Communications cable between two computers** modem that you installed earlier. If you haven't installed that modem, please refer to the Installation section and follow the on-screen instructions to complete the installation.
- 5. After you create a new connection, you should run AmbiCom Bluetooth Neighborhood application first. It will find the Bluetooth devices within the range. If you find a device such as the Bluetooth LAN Access point, you can start the connection you just created and the system will show the following window.

elect Device to Connect	×
Name	Address
G9U9J6	00:80:37:16:34:F5
AmbiCom Bluetooth LAN Access Point	00:10:7A:56:80:98
SIMON	00:40:68:6B:0B:14
	Þ
OK Can	cel

6. In the above window, select *AmbiCom Bluetooth LAN Access Point* and click **OK** to make an Internet connection.

Uninstall The AmbiCom Bluetooth Neighborhood

Please click **Start**, go to **Programs**, find **AmbiCom Bluetooth Neighborhood** and select **Uninstall Bluetooth Neighborhood**. Follow the on-screen instructions to complete the uninstallation.

7. Technical Support

Please visit AmbiCom Web site <u>http://www.ambicom.com</u> for online technical support. If you wish to speak to our support staff, please call 1-408-562-0168.



AmbiCom Bluetooth Solutions

User Manual for WinME

June 25, 2002

1. Introduction

This user manual covers the product features, release notes, installation procedures, and operating procedures for AmbiCom's Bluetooth applications.

Bluetooth wireless technology is a global standard for low-cost and low-power small form factors to connect multiple devices such as computers, mobile phones, PDAs, printers, LAN and WANs to each other. It provides fast and reliable digital transmission of both voice and data over 2.4GHz ISM open band. AmbiCom's Bluetooth wireless technology offers the following features:

• Cable Replacement

Establishes a wireless Personal Area Network with other Bluetooth devices within the operating range, without the hassles of wiring and configuration.

- Ad-hoc Networking Supports both data and voice between two or more devices wirelessly.
- Secure Wireless Connections Built-in authentication, encryption and authorization applications ensure secure information access and transmission.
- LAN and WAN Access Points LAN and WAN access such as Web, email, E-commerce, and VPN.

2. Product Features

With AmbiCom's Bluetooth CompactFalsh Card with PCMCIA adapter, USB Adapter or UART Adapter and Bluetooth software, you can establish wireless connections between your computer and other Bluetooth wireless devices. The features include:

- Device Discovery
- Name Discovery
- Service Discovery
- File Transfer
- Object Push for files, objects and business cards
- Blue Chat that allows users to instantly send and receive text messages
- Internet Access through Dial-Up Networking
- Connection to LAN through LAN Access Point

AmbiCom provides Bluetooth Neighborhood software application that integrates all of the above features into one single application.

3. Release Notes

- We support Windows ME on this release
- This release supports the AmbiCom Bluetooth CompactFlash, USB Dongle, USB Adapter, and UART Adapter.
- SIG 1.1 compliant Bluetooth protocol stack.

- We support Device Discovery, Name Discovery, Service Discovery, Pairing, Object Push, File Transfer, Dial-Up and LAN access Networking in this release.
- Audio is not supported in this release.
- When two devices are performing Device Discovery at the same time, they will not discover each other. Please do not run Bluetooth Neighborhood at the same time.

4. Installation Procedures for Windows ME

Important Notes: Make sure you have installed the Dcom 98.exe from Microsoft on your WinME system before you install AmbiCom Bluetooth software.

- 1. Insert the AmbiCom Bluetooth Installation CD into your laptop CD-ROM drive.
- 2. Run AmbiCom Bluetooth **Setup.exe** and follow the on-screen instruction to install the application program.
- 3. The following window will appear at the start of the installation process:

InstallShield Wizard	X
Choose Transport Select which type of Bluetooth radio will be connected to your computer.	AmbiCom
AmbiCom Bluetooth Device Selection	
CompactFlash Card	
C USB Adapter C UART Adapter	
InstallShield	
< <u>B</u> ack	Next > Cancel

4. Choose the device you have and click **Next** to continue. Simply follow the on-screen instructions. At the end of the installation, the system will show several windows to install some devices. This is because the system is installing some virtual devices for the software to use. Please be patient and wait until the system finishes.

5. After the system is finished installing the virtual devices, please click **Finish** to reboot your system.

InstallShield Wizard	
AmbiCom	InstallShield Wizard Complete Setup has finished installing AmbiCom Bluetooth Neighborhood on your computer. • Yes, I want to restart my computer now. • No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup. • O Setup: • O Setup:
	< <u>B</u> ack Finish Cancel

6. After you have restarted your laptop, please connect your AmbiCom Bluetooth CompactFlash, USB or UART Adapter to your laptop. The system will automatically install the driver for you. After the system installed the driver you need reboot your system. Now you are ready to execute Object Push, File Transfer and Blue Chat by using Bluetooth Neighborhood. Please see the section How to Run Bluetooth Neighborhood and skip the following steps. If you want to use the Dial-up Networking and LAN Access, please observe the following steps.

Installation Procedures for Dial-Up Networking

If you have a Bluetooth phone/modem, we recommend that you continue installing the corresponding components.

Note:

During the software installation, you will see several modems installed in your system. You can go to **Device Manager**, click **Modem** to view all the modems. For Dial-Up and LAN Access networking, we will use those modems to set up.

System Properties ?X
General Device Manager Hardware Profiles Performance
 View devices by type View devices by connection BtE si CDROM Disk drives Display adapters Floppy disk controllers Hard disk controllers Keyboard Modem Bluetooth DUN Client Bluetooth LAN Client Bluetooth LAN Client Bluetooth SERIAL Monitors
Properties Refresh Remove Print
OK Cancel

 From Control Panel, go to Dial-up Networking and create a New Connection for Bluetooth Dial-Up Networking. Following the on-screen instructions to set up a connection for the Bluetooth Dial-up Networking. During the setup, the system will ask you to select a modem for dial-up, please select the modem *Bluetooth DUN Client*. Click Next. 2. Click Next.



3. Click Next.

Make New Connection	×
	Type the phone number for the computer you want to call: Area code: Ielephone number: 408 • 555-1212 Country or region code: United States of America (1) •
	< <u>B</u> ack <u>N</u> ext > Cancel

4. Click Finish.



Follow the on-screen instructions to complete the setup.

Installation Procedures for LAN Access

1. For LAN Access, the installation procedure is almost identical **to Dial-Up networking**. The only difference is under *Make New Connection* where you should select *Bluetooth LAN Client*.

Make New Connection		×
	<u>I</u> ype a name for the computer you are dialing: BlueLAN Select a device: Image: Ima	-
	< <u>B</u> ack <u>N</u> ext > Cancel	

Click **Next** to continue the installation.

5. How to Run Bluetooth Neighborhood

- 1. You will find a Bluetooth Neighborhood shortcut on your Desktop.
- 2. Upon opening Windows Explorer, you will find the *Bluetooth Neighborhood* icon. Doubleclick on it and Bluetooth Neighborhood will start to run. You can see a Bluetooth Neighborhood GUI at the right-hand side of Windows Explorer. The *Device Discovery* window will appear when it finds all the Bluetooth devices within the operating range. The discovery process includes device discovery and name discovery.



3. After finding the devices, you can click on one of the devices and its services and capabilities will be listed. In the Device List Window (at the right of Windows Explorer), the first device is always the local device.


Security Mode

- 1. Our software provides two levels of security mode: security level 1 and security level 3. At security level 3, a PIN code will be required when other Bluetooth enabled devices try to connect with you. The PIN code entered needs to be the exact same one entered on both machines. This will give you more security. If you set your PC in security level 1, PIN codes will not be needed.
- 2. You can go to the Bluetooth Neighborhood to set the security level. Select the local device, right-click on it and select Property. You will see the following window.

AmbiCom Bluetooth Neighborhood	×
General Inbox About	_
Friendly Name : G9U9J6	
Device Class : Laptop 💌	
Device Address : 00:80:37:16:31:F7	
Status : Local Device	
Security Option: Bluetooth Security Mode 3 Bluetooth Security Mode 1 Bluetooth Security Mode 3	
OK Cancel Apply	

Access Mode

- 1. Our software provides three options of access mode: discoverable&connectable, nondiscoverable&connectable and non-discoverable&non-connectable. At the discoverable& connectable mode, you will allow other Bluetooth enabled devices to find and connect to you. At other two options, you will allow them to find you, but cannot connect to you. Or they cannot find you nor connect to you.
- 2. You can go to the Bluetooth Neighborhood to set the Access mode. Select the local device, right-click on it and select Property. You will see the following window.

AmbiCom Bluetooth Neighborhood	×
General Inbox About	
Friendly Name : AmbiCom	
Device Class : Laptop PC	
Device Address : 00:80:37:16:70:BC	
Status : Local Device	
Security Option: Bluetooth Security Mode 1	
Access Mode: discorverable&connectable	
discorverable&connectable	
non-discorverable&connectable	

Exchange vCards

 When you perform Exchange vCard, you need to go to the local device's Property to set up *My Business Card* path first, as shown in the following window. The default path is "C:\BTInbox".

AmbiCom Bluetooth Neighborhood
General Inbox About
Inbox Path : c:\BTInbox
Ask Permission to Receive Files
OK Cancel Apply

2. Now click the device that you want to exchange vCard with. You will see the following window. Click *Exchange vCards* and you will send your business card to the device and vice versa.

💐 Bluetooth Neighborhood					<u>_ ×</u>
<u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> o	ools Bluetooth <u>H</u> elp				<u>10</u>
📙 🖶 Back 👻 🤿 👻 🗟 🧟 Searc	ch 🔁 Folders 🚳 History	y 🔀			
Address 🚯 Bluetooth Neighborhood					💌 🤗 Go
Folders ×	Name	Address	Class	Security	Status
Desktop	СОМРАД	00:80:37:16:70:BC	Laptop	None	Local Device
My Documents My Music My Pictures My Computer My Network Places Recycle Bin Bluetooth Neighborhood Online Services	Paste Find Service Trust Device Exchange vCards Property	02:EB:80:01:13	LAN Access	None	In Range
2 object(s) (Disk free space: 1.46 GB)		0	bytes	🖳 My Co	mputer //

ļ	AmbiCom Bluetooth Neighborhood	J
	General Inbox About	
	Inbox Path : c:\BTInbox	
	My Business Card: c:\BTInbox\VCard.vcf	
	Ask Permission to Receive Files	
	OK Cancel Apply	

2. When you perform Object Push, simply **Drag** the file that you want to send, and **Drop** it to the Bluetooth Device that you want to receive on the left-hand side in Windows Explorer. You also can use **Copy** and **Paste** to do the object transfer between two Bluetooth devices. When you perform Object Push, the dialog box will show you the status.

AmbiCom Bluetooth Neighborhood				
OBEX Object Push Receive Files				
screen14.rtf Done %52 total 249852 of 478494 Bytes				
Cancel				

File Transfer

1. To execute File Transfer, open Windows Explorer, select "Bluetooth" on the menu bar and click on *File Transfer Client* or *File Transfer Server*. To have File transfer working on both ends, the application on the remote computer also needs to run File Transfer at the same time.



File Transfer Client Manager		
Local Device:		Directories to share for Bluetooth File Transfer:
a: c: BTInbox My Documents Program Files RECYCLED scshot98 simon win98.dsk 	==>	Name Path My Docum c:\My Documents
Start Server Stop Server		Properties
ОК		Cancel

2. After you share the directory and files, you can select them and click the *Properties* button to configure those directory or files.

Share Properties
Permissions
Select the minimum default attributes for all Files and Subfolders of the shared directory. Files or folders with the "Read-Only" attribute set in the Operating System will continue to be Read-Only, regardless of the settings below.
Normal Files: Read Only - Cannot delete or modify files.
System Files:
Hidden Files: Hide - Files won't be listed in the folder contents. Read Only - Cannot delete or modify files.
Eolders: No Create - Files and subfolders may not be added. No Delete - The folder may not be deleted.
Authorization:
OK Cancel

In this window, you can define the attribute of the Directory or file that you shared, give the permission for the *File Transfer Client* to use.

3. When you click on the *File Transfer Client* menu to run it, the system will show a *Select Device to Connect* window for to chose which device you want to connect.

Select Device to Connect			
Name	Address	Class	Sec
	00:10:7A:56:80:20	Laptop	No
•			►
🔲 Use As Default Cor	nnect Device		
OK	Cancel		

4. After you select the remote device that runs the File Transfer Server, the following window will appear. You will see the directory and file shared by the File Transfer Server. You can get file or directory from the File Transfer Server or place file or directory to the File Transfer Server. Also, you can create new folder in the Shared Directory from File Transfer Server.

File Transfer Client					×
Remote Device (no connection):					
Croot>	Name		Size	Modified	Properties
	•				
Local Device		<u>G</u> et	<u>P</u> ut	<u>D</u> elete	New <u>F</u> older
a: BTInbox BTInbox BTInbox Program Files RECYCLED Scshot98 Simon B- Win98.dsk B- WINDOWS B- C C C C C C C C C C C C C	BTInbox My Documents Program Files FICYCLED Scshot98 Simon Win98.dsk WINDOWS AUTOEXEC.BAT BOOTLOG.PRV BOOTLOG.TXT	COMMAND CONFIG.SY CONFIG.SY FRUNLOG. NSDOS MSDOS.SY NETLOG.T SCANDISK SETUPLOG SETUPXLG	I.COM In S 'S In S XT In V TXT 'S XT I.LOG S.TXT S.TXT	UHDLOG.DAT YSTEM.1ST IDEOROM.BIN	
					Exit

Blue Chat

1. To execute Blue Chat, open Windows Explorer, select "Bluetooth" on the menu bar and click on "Blue Chat." To have Blue Chat working on both ends, the application on the remote computer also needs to run Blue Chat at the same time.



2. After selecting *Blue Chat*, the following window will appear, prompting you to choose the direction of the connection setup.

AmbiCon	n Blue Chat Setup	×
*	Blue Chat must be set up on two computers, one connecting to the other. The computer that allows the other to connect to it must be running Blue Chat first in order for Blue Chat to work properly.	
	Options • I want to connect to another computer running Blue Chat.	
	C I want to allow another computer running Blue Chat to connect to me.	
	OK Cancel	

3. In the above window, two options are shown. You can either choose you want to connect to someone or wait for connection. If you want other people to communicate with you, simply select the lower checkbox, click **OK** and the following window will appear.

<mark>∦ </mark> Am	biCom Blue Chat	×I
	Local Computer	
_	Remote Computer	
Cu	rent Blue Chat Setup: Bluetooth Legacy Serial Host on COM5	
ł	Exit Blue Chat Setup Disconnect Connect	

4. If you want to connect to a remote device, select the first option, *I want to connect to another computer running Blue Chat* and click **OK** to see the following window. Click **Connect** to continue.

🕅 AmbiCom Blue Chat	×
Local Computer	_
Remote Computer	
Current Blue Chat Setup: Bluetooth Legacy Serial Client on COM5	
Exit Blue Chat Blue Chat Setup Disconnect Connect	

5. The system will show the following window in which you can select which device you wish to connect. Upon selecting the desired device, click **OK** to establish the connection.

Se	elect Device to Conr	nect		×
	Name	Address	Class	Sec
		00:10:7A:56:80:20	Laptop	No
	•			
	Use As Default Cor	nnect Device		
	OK	Cancel		

6. Now the two Bluetooth devices can connect to each other. You can type any text message in the Local Computer dialogue window and see the corresponding message from the Remote Computer as well.

Dial-Up Networking

Note:

The requirement to set up Dial-up Networking is to provide the Internet Service Provider information (ISP); user name, password, and the phone number.

For some Bluetooth enabled devices such as **Cellular Phones**, before you perform Dial-up, you need to execute **Trust Device** first. The following window shows you how to do so. For phone configuration, you need set it to the **Ready to pair** mode. You can refer the phone manual. After you paired your phone with the Bluetooth device, the software will remember the trust profile. You don't need to do this every time when you execute the Dial-up networking.

On Nokia Cell Phone

You have to set the security level 3 in the Bluetooth Neighborhood. Choose "Local Device", click the right button of your mouse, and then select "Property". Select under **security option** "**Bluetooth Security Mode 3**" and then follow the wizard manual.

On Ericsson Cell Phone

Select menu Extra > Bluetooth> Paired devices > Add devices > Phone Accepts Click Yes to assign the phone name and will show *Ready to pair* mode

On the computer

After discover the phone, right click on the mouse and choose Trust Device. Insert the password.



On Ericsson Phone

• Click Yes on the phone to Add to paired devices > insert the Password click yes

On Computer

 Insert the PIN number in the computer (the same that you inserted the password on the phone)

On Phone

• Show Pairing successful

On Computer

Change the status to **Trusted** in the Bluetooth Neighborhood

1. After you have created a new connection, run AmbiCom Bluetooth Neighborhood application first. It will find all the Bluetooth devices within the range. If you find devices such as Bluetooth phone/modem or Dial-Up Networking Access Point, you can proceed to establish the connection you just created. The system will show the following window. Fill in the necessary information and click **Dial**.

🐴 Connect To		<u>? ×</u>
₽ L ⊘	BlueDUN	•
<u>U</u> ser name:	eln/ambicom	
<u>P</u> assword:	*****	
	Save password	
	Connect automatically	
Phone <u>n</u> umber:	9 5551212	
Dialing <u>f</u> rom:	New Location	l Properties
	Connect P <u>r</u> operties	Cancel

2. The system will now show the following window in which you can select the Bluetooth device you would like to connect. Click **OK** to establish an Internet connection to an ISP.

S	elect Device to Connect		x
	Name Addr PicoBlue_800113 [192.168.1.45] 00:02:EB:1 1681 00:04:D9:1	ess 30:01:13 ID:5E:7A	
	OK Cancel		

3. In the above window, select T68 (The Phone name) and click OK to dial to ISP.

LAN Access

The setup procedures for LAN Access are almost identical to Dial-Up Networking. Please go to Dial-up Networking to establish a new connection. It is not necessary to provide phone number, user name and password to establish the connection.

6. Uninstalling AmbiCom's Bluetooth Neighborhood

- 1. Please click **Start**, go to **Programs**, click **AmbiCom Bluetooth Neighborhood**, select **Uninstall Bluetooth Neighborhood** and follow the on-screen instructions.
- 2. After rebooting your system, please go to **Device Manager** to find **BtEsi** and remove *AmbiCom Bluetooth Kernel*.

7. Technical Support

Please visit AmbiCom Web site <u>http://www.ambicom.com</u> for online technical support. If you wish to speak to our support staff, please call 1-408-562-0168.



AmbiCom Bluetooth CompactFlash Card BT2000-CF

User Manual for Pocket PC

Dec 02, 2002

1.0 Product Description

With the AmbiCom Bluetooth CompactFlash Card and Bluetooth software, you can establish wireless links between your Pocket PC and other Bluetooth wireless devices. Currently, we provide the following services through the Blue Neighbors and Phone Manager:

- Device Discovery
- Service Discovery
- Name Discovery
- Object Push (Transfer file between two Bluetooth enabled devices)
- Dial-Up Networking
- LAN Access Networking
- Phone Manager

This product can work with Compaq iPAQ, HP Jornada and CASIO CASSIOPEIA running on Windows CE 3.0.

2.0 Installation Procedure

- 1. You should first install Microsoft ActiveSync software on your Host PC.
- 2. Establish a partnership between your PDA and host PC through a serial or USB connection.
- 3. Run "AmbiCom Blue Neighbors for Windows CE.exe" from AmbiCom Bluetooth software CD and install all the Bluetooth components on to your PDA.
- 4. After you installed the software, reset your PDA.

2.1 Add the AmbiCom Blue Neighbors to your "Today" list.

After installing the software click Start->Today. Verify whether a banner is added for AmbiCom Bluetooth. If not, click on "Today" to get a setting page. From there, make a check to AmbiCom Blue Neighbors. An "AmbiCom Bluetooth" banner will be added to your "Today" list.

2.2 Hot Swapping feature

AmbiCom Bluetooth CF Card supports hot swapping feature. However, it is recommended to exit the Blue Neighbor program before removing the CF card from the slot.

3.0 How to use Blue Neighbors

- 3.1 Open Blue Neighbors
 - After you install the software, insert your AmbiCom Bluetooth CF Card into the PCMCIA slot. Double click or click and hold "AmbiCom Bluetooth" banner in "Today" list. You should get a pop up window. Select "Blue Neighbors".
 - 2. Using Blue Neighbors, you can perform ObjectPush, Device Discovery, Service Discovery, Name Discovery and Pairing.
 - 3. For the Dial-Up and LAN Access functions, see "Using Dial Up Networking" and "Using LAN Access Networking" for further information.

When you open the Blue Neighbors, you will see the following window.



Select "Device" option to get more options or select "Settings" to set the Blue Neighbors. How to set the various features is explained on Section 3.2.

3.2 Discovering and Pairing Devices

When you select "Device" option in the tool bar, you will get a pop up menu as shown in the picture

🎊 Blue Neighbors	◀€ 1:17	•
Properties Trust This Device Send File		
Exchange vCards		
FTP Connect FTP Server		
Find Devices Show Trusted Devices Show All Devices Remove All Trusted Devic	es	
Exit		
Device Settings Help 主		=

Click "Find Devices" to discover all the other devices around you. After discovering devices, you can do pairing as follows:

- Double click a device that you want to pair with.
- Click "Trust This Device" for pairing. If you are pairing with Ericsson cell phone, make sure that the phone you are trying to pair with is in pairing mode (See "How to use Dial-up Networking" in the following section for how to set Ericsson phone in pairing mode).
- When asked, enter the PIN key.
- You can click on "Device->Show Trusted Devices" to get the devices that are already paired and trusted earlier.
- If you want to see all the devices, which are discovered, click "Show All Devices". If you want to see only trusted devices click "Device->Show Trusted Devices".

3.3 Change default settings

Select "Setting" option in the tool bar to get a following pop up menu.

🄀 Blue Neighbors	1:33p 🛞
Annearance	
Radio Settings	
Blue Neighbors Se	ettings
Object Push Sett	ings
View	•
Arrange Icons	•
Device Settings Help 🔁 👔	₽ 🔤 ►

3.3.1 Appearance

This option allows you to set your device name and device type.

3.3.2 Radio Settings

This option allows you to set the security mode. You can set either security level 1 or security level 3. Security level 1 means no security. It is in-secure connection. Devices will not do any security procedures while connecting each other. Security level 3 means link level security. User will be authenticated during the connection. While establishing connection, device will ask the passkey (PIN key). If a same number is entered in both devices then authentication will complete successfully and connection continues or else connection will not establish.

3.3.3 Blue Neighbors Setting

If you want to retrieve the name of the device in range enable "Automatically retrieve name of devices in range" by checking the check box.

3.3.4 Object Push Setting

This option allows you to set the Inbox path and name of the default vCard. Inbox path is the path to directory where received object will be stored. VCard is the name of the object, which will send to selected device when you select "Device->Exchange vCard".

3.3.5 View

This option allows you to set the icon type.

3.3.6 Arrange icons

This option allows you to arrange the icons depending on name, address or by type.

3.4 Send an object

After discovering the devices, select a device for which you want to send an object. Now click Device->Send file. It will open a window in which you can select a file to send.

4.0 Using File Transfer

When you select "Device" option in the tool bar, you will get a pop up menu as shown in the picture

🎊 Blue Neighbors	◀€ 1:17	•
Properties Trust This Device Send File		
Exchange vCards		
FTP Connect FTP Server		
Find Devices Show Trusted Devices Show All Devices Remove All Trusted Devic	es	
Exit		
Device Settings Help 主		=

4.1 File Transfer Sever

When you click the **FTP Server** on the above window, the following window will show up. Use your pen click and hold the screen, the menu will pop up. You can add the new share directory or remove it. you also can configure the shared directory. After you done it, you just simply click the "**Start Server**" button, the FTP server will start running.

🎊 FTP Server		-{ € 1:	33 🤇	Þ
Disconnected				
Name	Path		Pro	ų
🚞 Temp	\Temp		RW	7
Add	Share			
Ren	nove Share			
Sha	re Propertie	s		
•	Ш		•	
Start Server	St	top Se	erver	
				

When you click the "Add Share", the following window will pop up to let you add the new share directory. You can give the different permission, also you can give the different name for your shared directory.

🏂 FTP Serve	r	🔫 1:37 🛛 🐽
Folder Name:		Browse
Share Name:		
- Share Properti		
Read	Write	✓ Delete
ОК]	Cancel
		

4.2 File Transfer Client

Double click on the Bluetooth device that is displayed after the discovery. A pop up menu will show up. you click the **FTP Connect** on the screen, the following window will show up.

🏂 FPT Client		4 € 1:46	₫
Remote Device	e: 00:10:7A	.:4C:01:FF 🛛	Jp
Name	Size	Modified	
🚞 WINDO	41943	7/10/1885	
•	III		•
Get Put De	lete New 1	folder Abor	't
Local Directo	ory		
<u>N</u>			
Transfer comp	lete: Index	_c.xml	
			±

You will see the shared directory from the FTP server. You also can configure the directory that you send or receive file by setting the "Local Directory".

5.0 Using Dial-up Networking

Double click on any Bluetooth device that is displayed after the discovery. A pop up menu will show all the services support by that device. If the device supports dial-up networking, choose that service.

5.1 Device Configuration

- 1. Insert AmbiCom CF Card into PDA.
- 2. Create a new modem connection in your Windows CE device
 - Find the prompt "To create a new modem connection, go to Modem Settings." in the connection group, and Click the "Modem".
 - Select "New Connection..."
 - Enter a name for your connection.
 - Select " AmbiCom Bluetooth Modem " for your dialup modem. (***DO NOT select AmbiCom_inc-BT2000E***)
 - Use the default baud rate in your system.
 - Click "Next"
 - Enter "Country code", "Area code" and "Phone number".
 - Click "Next"
 - Uncheck the box "Wait for dial tone before dialing".
 - Click "Finish" to complete your configuration.

5.2 Device Pairing with Ericsson Cell Phone

- 1. On Phone
 - Select menu "Extras"
 - Select "Bluetooth"
 - Select "Paired devices"
 - Select "Add Device"
 - Select "Phone accepts"
- 2. On PDA

If you are pairing with any device other than Ericsson cell phone, refer to section "**How to discover other devices and pairing with them?**" If you are pairing with the Ericsson cell phone then you can either use the wizard, which is easier or follow the below explained guidelines. Usage of the wizard is explained later.

- Double click AmbiCom Bluetooth panel in "Today" window. Click "Blue Neighbors".
- Find the Bluetooth devices around it
- Double click Ericsson cell phone with which you want to do pairing.
- Select "Trust this Device" in pop-up Menu.

- 3. Enter passkey on the phone first and then enter the same passkey on the PDA after the dialog window pops up.
- 4. Follow instruction on the phone to save the paired device.
- 5. After you finish the pairing, the Blue Neighbors will remember the paired Device (i.e. the cell phone), so it is not necessary to do pairing again when you use the same phone next time.
- 5.3 Using Wizard
 - 1. Double click or click and hold the "AmbiCom Bluetooth" banner in the "Today" list. You will get a popup menu. Select "Dial Up Setup Wizard". You will get the window shown below.

🋃 Start	1:35p	()
Welcome to the Dial Setup Wizard.	Up	
This Wizard helps you throug searching, pairing and settin ISP information of a phone.	gh the g up the	
Select the Bluetooth Phone	:	
Ericsson	r	
Next > Cano	:el	
		ਸ਼∣▲

- 2. Select a phone type and then click "Next". Currently you can use this wizard only for Ericsson cell phone.
- 3. After this, you will get a window shown on the following page. Read the message in the window and have your phone ready for pairing. After this, click "Next" to continue.

Start 1:37	o @k
Prepare the phone.	
Turn on your Ericsson Bluetooth ph and set the phone to:	ione
Extras -> Bluetooth -> Paired devic Add device->Phone accepts.	:es ->
When you see "Ready to pair" displ on the phone, click Next to continu setup.	ayed Je
< Back Next > Cance	1
	•

Note: If you have paired the PDA with Ericsson phone previously, delete that paired device name from your phone first. On your phone, set to "Extras -> Bluetooth -> Paired devices" and select the paired device name you want to pair again. Press 'Yes' button and select 'delete'.

4. Your PDA will search the phone for pairing. You will get the window shown below as a result of successful search of a phone. Click "Next" to continue.

🚯 Start 1:39	o (ok	
Bluetooth phone found.		
Ericsson 00:80:37:0A:4E:F8		
To connect the mobile device to yuphone, two devices need to trust each other first. Click Next to begin the pairing. If you see "Failed Retry" message o your phone, press "Yes" button on your phone	our 1 In	
< Back Next > Cance	el	
	*	

However, if the wizard gets more than one phone, it will display the following dialog box with all the nearby Bluetooth phones that are in discoverable/pairing mode.

🄀 Blue Neighbors	6: 33p	
Select a device to connect.		
Name	Address	
👹 Ericsson 🐞 T39m	00:80:37:0A:4E 00:80:37:16:78	
 III Connect 	Cancel	
	E	

Click on the phone you want to use and click "Connect".

- 5. Your phone will ask you to enter a PIN number. Enter your PIN number there. Enter the same PIN number on your PDA. If the pairing is successful, the wizard will continue for the dial up setup procedure.
- 6. Enter the phone number and DNS server name (if applicable) in the window when prompt shown on the following page.

🏽 Dial Up Setup Wizard 🔰 1:42p 🐽		
Enter ISP information.		
Enter your ISP infomation for connecting to the internet.		
Phone Number: 15102403565		
DNS Server:		
Next > Cancel		
E		

7. Click Next to get another window and complete the process.

5.4 Dial-up to ISP

Select the cell phone icon in the AmbiCom Bluetooth banner. It will connect you to the cell phone with which you have done pairing. After that, it will connect you to an ISP using that cell phone. If you have more than one paired phone, the last selected phone will be used.

Note: If you have more than one paired phone on your PDA and want to select different phone, go to "Blue Neighbors" and double click on the phone you want to use and select "Dial Up".

5.5 Disconnect from the Dial Up Server

If you want to disconnect, click "Today" and then click the network connection icon, which is located in the lower right corner of the screen. It will display a dialog box where you can select "Disconnect" to disconnect from the network.

6.0 Using LAN Access Networking

When you install the AmbiCom Blue Neighbors software, a new connection is made for the use of LAN Access point. If you want to connect to LAN Access point, select Start->Programs->Connections. You will find an icon called "AmbiCom BTLAN". Double click this icon, it will show you the lists of devices found. Select the LAN Access Point device and then click "Connect" to connect with the LAN Access point.

Another way is to double click on any Bluetooth device that is displayed after the discovery. A pop up menu will show all the services supported by that device. If the device supports LAN Access networking, choose that service, and when you click the "Dial up" option, the system will bring up the "Connections" window. In this window, you will find an icon called "AmbiCom BTLAN". Double click this icon, and then click "Connect" to connect to the LAN Access point.

If you are using the Pocket PC 2002, if the device supports LAN Access networking, choose that service, and when you click the "Dial up" option, the system will bring up a dialog window. You can click the "Connect" to connect to the LAN Access point.

6.1 Disconnect from the LAN Access Point

If you want to disconnect click "Today" first and then click the network connection icon that is located in the lower right corner of the screen. It will display a dialog box where you can select "Disconnect" to disconnect from the network.

7.0 Using Phone Manager

The major function of phone manager is to manage the Phone Book and SMS (Short Message Service) through PDA instead of the phone. A Bluetooth link will be established between the phone and the PDA.

From Blue Neighbors

- 1. Double click or click and hold "AmbiCom Bluetooth" banner in "Today" list.
- 2. Click Blue Neighbors
- 3. Click the "Device" option in the tool bar. Select "Find Devices" option in the pop up menu, which will discover devices in the surrounding area.
- 4. After discovering devices, select a particular cell phone and double click it to open a pop up menu. Make sure that the cell phone you select is already paired up with your device. Otherwise, you need to do pairing first before proceeding this section.
- 5. Select "Phone Manager" option to open the phone manager.

From AmbiCom Bluetooth banner

- 1. Double click or click and hold "AmbiCom Bluetooth" banner in "Today" list.
- 2. Select "Phone Manager" in the pop up window.

Note: If you have more than one paired phone on your PDA, you need to select which phone you want to use first. Go to "Blue Neighbors" and double click on the phone you want to use and select "Phone Manager".

7.1 Phone Books

7.1.1 Get Contact Information from Cell Phone

You can get all the contact information from your cell phone by clicking the cell phone icon with outward directing arrow icon. You can also select "Phone Book" or "SIM Book" option to get contact information.

🎒 Phone Manager	1:43p 😡	
User Name	Home Number:	
	Work Number:	
	Moblie Number:	
	Fax Number:	
▲ Ⅲ ▶		
	Other Number:	
Phone Book 🛛 👻		
Phone Book SMS Inbo:	× SMS Outbox About	
Phone 🖉 🏂 🏂 🕂 💻 🔤 📥		
↑		

7.1.2 Modify and Save Information

After getting the information, you can modify any information. To save the modification, click the cell phone with inward directing arrow icon.

7.1.3 Delete Information

To delete any user contact, select user name and then click the red colored bar icon.

🏭 Phone Manager	· 1:46p 🞯
User Name	Home Number:
ise <mark>igene</mark>	15102490581
s⊊ TSAI S set GINGER	Work Number:
i⊜ PING	
i⊗iNew User	Moblie Number:
senancy	
	Fax Number:
▲	
	Other Number:
Phone Book 🛛 👻	
Phone Book SMS Inbo	X SMS Outbox About
Phone 🚿 🎠 🏂 ·	+- 📼 •
	^

7.1.4 Add New User

To add new contacts, choose the blue plus sign icon or select "Phone" option in menu and click "Add User". Fill user name and all other related information and click phone with inward direction arrow icon to save in the cell phone.

🄀 Phone Manager	· 1:47p 🛞
User Name	Home Number:
	Work Number:
	Moblie Number:
	Fax Number:
◀ Ⅲ ▶	
	Other Number:
Phone Book 🛛 🔻	
Phone Book SMS Inbo	× SMS Outbox About
Phone 🚿 🎠 🏂 ·	+ - 🖂 -
7.1.5 Change the User Name

First select the user name that you want to rename and then click once on that user name. This will then allow you to edit the name. Make appropriate changes and save it.

7.1.6 Disconnect from Phone

To disconnect, click the cell phone icon or select "Phone->Disconnect" option.

🎒 Phone Manager	1:47p 🛞
User Name	Home Number:
	Work Number:
	Moblie Number:
	Fax Number:
◀ Ⅲ ▶	
	Other Number:
Phone Book 🛛 🔻	
Phone Book SMS Inbo:	x SMS Outbox About
Phone 🚿 🎠 🖄 ·	+ - 🔤 - +
•	

7.2 SMS Messages

7.2.1 Get Messages from Inbox of the Cell Phone through SMS

Select SMS Inbox page in menu bar displayed at the bottom. Click outward direction arrow to get all the messages in the SMS Inbox of the cell phone. To open a particular message, double click the message.

7.2.2 Delete a SMS Message

Select a message and click delete icon (icon with red colored bar).

7.2.3 Send a SMS Message

Select SMS Outbox page. You have the following three options to open outbox message:

- 1. Click the blue colored plus sign icon to open a new window. Type your message and phone number to whom you want to send the message and click the send button.
- 2. Click "Phone" option in the lower left corner of the device and then click Send message.
- 3. Or you can simply double click the white screen.

8.0 Un-installation Procedures

- 1. Make sure you remove the AmbiCom Bluetooth CF Card from the PCMCIA slot.
- 2. Click the "Start" on the upper left corner of the screen and then select "Settings".
- 3. On the lower left corner of the screen, you will see "System". Click it.
- 4. Click the "Remove Programs".
- 5. Select "AmbiCom Blue Neighbors for Windows CE" then click "Remove".



AmbiCom Bluetooth Solutions

User Manual for WinXP

June 25, 2002

1. Introduction

This user manual covers the product features, release notes, installation procedures, and operating procedures for AmbiCom's Bluetooth applications.

Bluetooth wireless technology is a global standard for low-cost and low-power small form factors to connect multiple devices such as computers, mobile phones, PDAs, printers, LAN and WANs to each other. It provides fast and reliable digital transmission of both voice and data over 2.4GHz ISM open band. AmbiCom's Bluetooth wireless technology offers the following features:

• Cable Replacement

Establishes a wireless Personal Area Network with other Bluetooth devices within the operating range, without the hassles of wiring and configuration.

- Ad-hoc Networking Supports both data and voice between two or more devices wirelessly.
- Secure Wireless Connections Built-in authentication, encryption and authorization applications ensure secure information access and transmission.
- LAN and WAN Access Points
 LAN and WAN access such as Web, email, E-commerce, and VPN.

2. Product Features

With AmbiCom's Bluetooth CompactFlash with PCMCIA, USB Adapter or UART Adapter and Bluetooth software, you can establish wireless connections between your computer and other Bluetooth wireless devices. The features include:

- Device Discovery
- Name Discovery
- Service Discovery
- File Transfer
- Object Push for files, objects and business cards
- Blue Chat that allows users to instantly send and receive text messages
- Internet Access through Dial-Up Networking
- Connection to LAN through LAN Access Point

AmbiCom provides Bluetooth Neighborhood software application that integrates all of the above features into one single application.

3. Release Notes

- We support Windows XP on this release
- This release supports the AmbiCom Bluetooth CompactFlash, USB Dongle, USB Adapter, and UART Adapter.
- SIG 1.1 compliant Bluetooth protocol stack.

- We support the Device Discovery, Name Discovery, Service Discovery, Pairing, Object Push, File Transfer, Dial-Up Networking and LAN Access Networking in this release.
- Audio is not supported in this release.
- When two devices are performing Device Discovery at the same time, they will not discover each other. Please do not run Bluetooth Neighborhood on both devices at the same time.

4. Installation Procedures for Windows XP

- 1. Insert the AmbiCom Bluetooth Installation CD into your laptop CD-ROM drive.
- 2. Run AmbiCom Bluetooth **Setup.exe** and follow the on-screen instruction to install the application program.
- 3. The following window will appear at the start of the installation process:

InstallShield Wizard	
Choose Transport Select which type of Bluetooth radio will be connected to yo computer.	our 🔀 AmbiCom
AmbiCom Bluetooth Device Selection	
CompactFlash Card	
C USB Adapter	
C UART Adapter	
Install Chiefe	
< <u>B</u> ack	<u>N</u> ext > Cancel

Select the device you have and click **Next** to continue. During the installation, the following windows will appear indicating additional new devices are being installed.



Hardwa	re Installation
	The software you are installing for this hardware: Bluetooth COM Port - SERIAL has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway

Click **Continue Anyway** to complete the installation. After this installation, you can go to **Device Manager** and find those devices under **Other devices** and **Ports (COM & LPT)** shown in the following window.



In this window, you can see that *AmbiCom Bluetooth COM Bridge* has a question mark. This is OK because it is a special device and was designed to appear as such.

4. After you have restarted your laptop, please connect your AmbiCom Bluetooth CompactFlash, USB or UART Adapter to your laptop. The system will automatically install the driver for you. After the system installed the driver you need reboot your system. Now you are ready to execute Object Push, File Transfer and Blue Chat by using Bluetooth Neighborhood. Please see the section "How to Run Bluetooth Neighborhood" and skip the following steps. If you want to use the Dial-up Networking and LAN Access, please observe the following steps.

Installation Procedures for Dial-up Networking

If you have Bluetooth phone/modem, then you should continue to install the corresponding components.

1. Go to **Control Panel**, click on *Phone and Modem Options* to add a new mode for Bluetooth Dial-Up Networking.

Phone and Modem Options	? 🗙
Dialing Rules Modems Advanced	
The following <u>m</u> odems are installed:	
Modem Attached To	
Add <u>R</u> emove <u>Prope</u>	erties
OK Cancel	Apply

2. Click Add to see Add/Remove Hardware Wizard, Check the checkbox Don't detect my modem I will select it from a list and click Next.

Add Hardware Wizard	
Install New Modem Do you want Windows to detect your modem?	
 Windows will now try to detect your modem. Before continuing, you should: If the modem is attached to your computer, make sure it is turned on. Quit any programs that may be using the modem. Click Next when you are ready to continue. Image: Don't detect my modem; I will select it from a list. 	
< <u>B</u> ack <u>N</u> ext > Cancel	

3. After you click **Next**, the following window will appear. Select the **AmbiCom** as the **Bluetooth modem** and click **Next** to continue.



Note: If you want to use this modem to perform Dial-Up networking with your Bluetooth cellular phone, it's possible some phones may not work properly. If it doesn't work, you should contact your cellular phone vendor for special modem driver.

After you click Next, the system will ask you which COM Port you will use. Before selecting, you should go to Device Manager > Ports (COM & LPT) to find out which COM port is associated with Bluetooth COM Port – DUN (assume COM 4 for DUN).



Refer to the above window to select the correct COM Port for your Bluetooth DUN modem.

Add Hardware Wizard		
Install New Modem Select the port(s) you w	vant to install the modem on.	E
	You have selected the following modem: AmbiCom Bluetooth Modem On which ports do you want to install it? All ports Selected ports COM3 COM4 COM5 COM6	
	< <u>B</u> ack <u>N</u> ext > C	ancel

After you click **Next**, the following window will appear.

Hardwa	re Installation
<u>.</u>	The software you are installing for this hardware: AmbiCom Bluetooth Modem has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway

5. Click **Continue Anyway** to complete the modem installation. After you installed the Bluetooth Modem **Ambicom Bluetooth Modem**, you can treat it as a normal modem. Now, you are ready to create a Dial-Up networking connection through the Bluetooth Phone/Modem.

Installation Procedures for LAN Access

6. For LAN Access, the installation procedure for modem is almost the same as Dial-Up networking. The only difference is under *Installing New Modem* where you should select *Communications Cable between two computers* instead.



- 7. Click **Next** to continue the installation.
- 8. After you click **Next**, the system will show a window asking you which **COM** Port you will use. Before performing the selection, you should go to **Device Manager** to find out which **COM** port is associated with **Bluetooth COM Port - LAN**.



Refer to the above window to select the correct COM Port for your Bluetooth LAN modem.

Add Hardware Wizard	
Install New Modem Select the port(s) you w	vant to install the modem on.
	You have selected the following modem: Communications cable between two computers On which ports do you want to install it? All ports Selected ports COM3 COM4 COM5 COM6
	< <u>B</u> ack <u>N</u> ext > Cancel

9. After you install *Communications cable between two computers*, you are ready to create a new network connection through LAN Access Point.

How to Run Bluetooth Neighborhood

- 1. You can find a shortcut on the Desktop Bluetooth Neighborhood.
- 2. Please go to the Windows Explorer, you will find an icon labeled *Bluetooth Neighborhood*. Double-click on it to run Bluetooth Neighborhood. You can see a Bluetooth Neighborhood GUI at the right-hand side of Windows Explorer, and the window *Device Discovery* will appear. When all the Bluetooth devices within the range are found, the *Device Discovery* window will disappear. The discovery process includes device discovery and name discovery.



3. After finding the devices, you can click on one of the devices and see what services that device can provide. In the *Device List Window* (at the right-hand side of Windows Explorer), the first device is always the local device.

😂 Bluetooth Neighborhoo	d				
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorit <mark>es</mark>	<u>T</u> ools Bluetooth <u>H</u> elp				1
🕝 Back 🝷 🕤 🕆 🏂	Search 🎼 Folders	M			
Address 🚯 Bluetooth Neighbor	hood				💙 ラ Go
Folders ×	Name	Address	Class	Security	Status
Desktop H A My Documents		00:80:37:16:70:C3	Laptop	None	Local Device
Generation Generation Generation Generation Generation Generation Generation	SIMON	00:40:68:6B:0B:1A	Desktop	None	In Range
 Recycle Bin Bluetooth Neighborhood 	00:80:37:16:34:FD	00:80:37:16:34:FD	Unknown	None	In Range
	AmbiCom Bluetooth LAN	00:10:7A:56:80:98	LAN Access	None	In Range
	 a	00:80:37:14:0D:EF	Handheld	None	In Range
	G9U9J6	00:80:37:16:34:F6	Laptop	None	In Range
		00:80:37:16:31:E2	Laptop	None	In Range
		£	· (*	1	
<	OBEX Object Dial Up LA Push Network	NN Access Serial Po	ort File Tra	nsfer	

Security Mode

- 1. Our software provides two levels of security mode: security level 1 and security level 3. At security level 3, a PIN code will be required when other Bluetooth enabled devices try to connect with you. The PIN code entered needs to be the exact same one entered on both machines. This will give you more security. If you set your PC in security level 1, PIN codes will not be needed.
- 2. Security levels can be set in Bluetooth Neighborhood. Select the local device, right-click it, select *Property* and you will see the following window.

AmbiCom Bluetooth Neighborhood	×
General Inbox About	
Friendly Name : AMBICOM-WC20GSC	
Device Class : Laptop	
Device Address : 00:10:7A:4C:00:2A	
Status : Local Device	
Security Option: Bluetooth Security Mode 3 Bluetooth Security Mode 1 Bluetooth Security Mode 3	
OK Cancel Apply	

Access Mode

- Our software provides three options of access mode: discoverable&connectable, nondiscoverable&connectable and non-discoverable&non-connectable. At the discoverable& connectable mode, you will allow other Bluetooth enabled devices to find and connect to you. To run the other two options, you will allow them to find you, but cannot connect to you. Or they cannot find you nor connect to you.
- 2. You can go to Bluetooth Neighborhood to set the Access mode. Choose the local device, rightclick it, select Property and you will see the following window.

AmbiCom Bluetooth Neighborhood
General Inbox About
Friendly Name : AMBICOM-WC20GSC
Device Class : Laptop PC
Device Address : 00:80:37:16:70:BC
Status : Local Device
Security Option: Bluetooth Security Mode 1
Access Mode: discorverable&connectable
discorverable&connectable non-discorverable&connectable Of non-discorverable&non-connectable

Exchange vCards

 When you perform Exchange vCard, you need go to the local device 's property to set up *My Business Card*' path first, as shown in the following window. The default path is "C:\BTInbox".

AmbiCom Bluetooth Neighborhood	×
General Inbox About	
Inbox Path : c:\BTInbox	
My Business Card: c:\BTInbox\VCard.vcf	
🔽 Ask Permission to Receive Files	
OK Cancel Apply	

 Now you click the device that you want to exchange vCard with. You will see the following window. Click *Exchange vCards* and you will send your business card to this device and vice versa.



Object Push

1. Before you execute Object Push, please set up your inbox path first. This directory will save files that you receive. The default path is "C:\BTInbox".

AmbiCom Bluetooth Neighborhood	
General Inbox About	
Inbox Path : c:\BTInbox	
🔽 Ask Permission to Receive Files	
OK Cancel Apply	

2. When you execute Object Push, simply **Drag** the file that you want to send, and **Drop** it to the Bluetooth Device that you want to receive on the left-hand side in Windows Explorer. You also can use **Copy** and **Paste** to do the object transfer between two Bluetooth devices. When you perform Object Push, you will see a dialog box like the one below indicating the status.

AmbiCom Bluetooth Neighborhood
OBEX Object Push Receive Files
screen14.rtf Done %52 total 249852 of 478494 Bytes
Cancel

File Transfer

1. To execute File Transfer, open Windows Explorer, select *Bluetooth* on the menu bar and click on *File Transfer Client* or *File Transfer Server*. To have File transfer working on both ends, the application on the remote computer also needs to run File transfer at the same time.



2. The following window shows the File Transfer Server. In the File Transfer Server, you can select the directory or file on the left-hand side of the window, and share it by using the arrow button to transfer it to the right side of window. The directory or files in the right-hand side of the window are those that have been shared for the File Transfer Client to use.

File Transfer Client Manager			
Local Device:	[Directories to	o share for Bluetooth File Transfer
A: C: BTInbox Documents and Settin All Users Compaq Cookies Desktop E- Cookies Desktop Desktop E- Cookies Desktop Cookies Desktop Desktop Cookies Desktop Cookies Desktop Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Desktop Cookies Cookies Desktop Cookies Desktop Cookies Cooki	==>	Name BTInbox Compaq	Path C:\BTInbox C:\Documents and Setti
Send I o		<	
Start Server Stop Server			Properties
ОК			Cancel

3. After you share the directory and files, you can select them and click the **Properties** button to configure those directory or files.

Share Properties 🛛 🔀
Permissions
Select the minimum default attributes for all Files and Subfolders of the shared directory. Files or folders with the "Read-Only" attribute set in the Operating System will continue to be Read-Only, regardless of the settings below.
Normal Files: Read Only - Cannot delete or modify files. Sustem Files:
Hide - Files won't be listed in the folder contents.
Hidden Files: Hide - Files won't be listed in the folder contents. Read Only - Cannot delete or modify files.
Eolders: No Create - Files and subfolders may not be added. No Delete - The folder may not be deleted.
Authorization:
OK Cancel

In this window, you can define the attribute of the directory or file that you shared, give the permission for the "File Transfer Client " to use.

4. When you click on the *File Transfer Client* menu to run it, the system will show a *Select Device to Connect* window for you to choose which device you want to connect.

S	elect Device to Connect	×
	Name SIMON 00:80:37:16:34:FD AmbiCom Bluetooth LAN Access Point a G9U9J6	Address 00:40:68:68:08:14 00:80:37:16:34:F0 00:10:7A:56:80:98 00:80:37:14:0D:EF 00:80:37:16:34:F6
	TWINHEAD	00:80:37:16:31:E2
	Can	cel

5. After you select the remote device that runs the File Transfer Server, the following window will appear. You will see the directory and file shared by the File Transfer Server. You can get file or directory from the File Transfer Server or place file or directory to the File Transfer Server. Also, you can create new folder in the Shared Directory from File Transfer Server.

File Transfer Client				X
Remote Device (00:80:37:16:34:F	6):			
<pre><root></root></pre>	Name	Size	Modified	Properties
BTInbox	AmbiCom Bluetooh Neighborhood	2900 KB	12/20/2001	0x00000007 RWD
	🚯 Blank Note.pwi	1 KB	12/19/2001	0x00000007 RWD
	🚯 Meeting Notes.psw	2 KB	12/19/2001	0x00000007 RWD
	🚯 Meeting Notes.pwi	2 KB	12/19/2001	0x00000007 RWD
	🚯 Memo.psw	3 KB	12/19/2001	0x00000007 RWD
	🚯 Memo.pwi	3 KB	12/19/2001	0x00000007 RWD
	🚯 register before install amb Neigh.reg	6478 KB	12/19/2001	0x00000007 RWD
	<			>
Local Device	<u>G</u> et	<u>P</u> ut	<u>D</u> elete	New <u>F</u> older
🕀 🚽 A:	🚞 Application Data 🛛 🛅 Templates			
🚊 🥪 C:	🛅 Cookies 🛛 🗖 ASPI2HLP.9	SYS		
BTInbox	🛅 Desktop 🛛 🗖 Meeting Not	tes.pwi		
Documents and S	😪 Favorites 🛛 🔤 NTUSER.D/	AT		
	🛅 Local Settings 👘 📃 ntuser.dat.Ll	OG		
- Compaq - Compaq	🛅 My Documents 🛛 🤒 ntuser.ini			
Englication Cookies	🛅 NetHood			
	PrintHood			
⊕ 🙀 Favorites	🙆 Recent			
🗄 🛅 Local Sei	🗀 SendTo			
🕀 🛅 My Docu 🥁	🗀 Start Menu			
				Exit

Blue Chat

1. To execute Blue Chat, click *Blue Chat* on the *Bluetooth Menu* on Windows Explore Menu bar. To have Blue Chat working on both ends, the application on remote computer also needs to run Blue Chat at the same time.



2. After you click on *Blue Chat*, the following window will appear.

AmbiCo	m Blue Chat Setup	×
*	Blue Chat must be set up on two computers, one connecting to the other. The computer that allows the other to connect to it must be running Blue Chat first in order for Blue Chat to work properly.	
	Options I want to connect to another computer running Blue Chat. I want to allow another computer running Blue Chat to connect to me.	
	OK Cancel	

3. In the above window, two options are shown. You can either choose to connect to someone or wait for connection. If you want other people to communicate with you, simply check the lower checkbox, click **OK** and the following window will appear.

制	AmbiCom Blue Chat			
		Local Con	nputer	
	J	Remote Co	mputer	
	Current Plue Chat Catu	n: Dhustaath Laasan Cari	Lillest on COM2	
	Current Blue Chat Setu	p. bluetooth Legacy Sena		
	Exit Blue Chat	Blue Chat Setup	Disconnect	Connect

4. If you want to connect to a remote device, check the upper checkbox. Click **OK**, the following window will appear.

制	AmbiCom Blue Cha	ıt		
		Local Con	nputer	
		Demote Co		
		Hemote Lo	omputer	
	Current Blue Chat Se	etup: Bluetooth Legacy Ser	ial Client on COM3	
	Exit Blue Chat	Blue Chat Setup	Disconnect	Connect

5. Click **Connect**, you will see the following window from which you can select the device you wish to connect.

elect Device to Connect	
U	• • • • • • •
Name	Address
SIMON	00:40:68:6B:0B:14
00:80:37:16:34:FD	00:80:37:16:34:FC
AmbiCom Bluetooth LAN Access Point	00:10:7A:56:80:9
a	00:80:37:14:0D:EF
G9U9J6	00:80:37:16:34:F6
TWINHEAD	00:80:37:16:31:E2
<	>
Can Can	cel
	elect Device to Connect Name SIMON 00:80:37:16:34:FD AmbiCom Bluetooth LAN Access Point a G9U9J6 TWINHEAD Can

6. Select a Bluetooth Device you wish to connect, and click **OK**. The two Bluetooth devices now can connect to each other. You can type any text messages within Local Computer window and you can see the messages from the Remote Computer as well.

Dial-Up Networking

Note:

For some Bluetooth enabled devices such as **Cellular Phones**, before you perform Dial-up, you need to execute **Trust Device** first. The following window shows you how to do so. For phone configuration, you need set it to the **Ready to pair** mode. You can refer the phone manual. After you paired your phone with the Bluetooth device, the software will remember the trust profile. You don't need to do this every time when you execute the Dial-up networking.

On Ericsson Cell Phone

Select menu Extra > Bluetooth> Paired devices > Add devices > Phone Accepts Click Yes to assign the phone name and will show *Ready to pair* mode

On the computer

After discover the phone, right click on the mouse and choose **Trust Device**. Insert the password.



On Ericsson Phone

• Click **Yes** on the phone to Add to paired devices > insert the Password click yes

On Computer

• Insert the PIN number in the computer (the same that you inserted the password on the phone)

On Phone

• Show Pairing successful

On Computer

• Change the status to *Trusted* in the Bluetooth Neighborhood

The requirement to set up Dial-up Networking is to provide the Internet Service Provider information (ISP); user name, password, and the phone number.

 For Dial-Up Networking, please go to Control Panel and find Network Connections to create a new connection. When you create the new connection for the Dial-Up networking, please use the AmbiCom Bluetooth Modem that you installed earlier. If you haven't installed that modem, please refer to the Installation section. Continue the process by click Next.



2. Choose the option "Connect to the network at my workplace". Click Next.

New Connection Wizard
What do you want to do?
Connect to the Internet Connect to the Internet so you can browse the Web and read email.
Connect to the network at my workplace
Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location.
○ Set up a home or small office network
Connect to an existing home or small office network or set up a new one.
○ Set up an advanced connection
Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it.
< <u>Back</u> Next> Cancel

3. Choose "*Dial-up connection*" option and then click Next.

New Connection Wizard
Network Connection How do you want to connect to the network at your workplace?
Create the following connection:
Virtual Private Network connection Connect to the network using a virtual private network (VPN) connection over the Internet.
<back next=""> Cancel</back>

4. Ensure that Modem Ambicom Bluetooth Modem (Assume Com4 is checked mark). Click Next.

New Connection Wizard		
Select a Device This is the device that will be used to make the connection.		
You have more than one dial-up device on your computer. Select the devices to use in this connection:		
Modem - AmbiCom Bluetooth Modem (COM4)		
< <u>B</u> ack <u>Next</u> > Cancel		

5. Specify the name of Application. Click Next.

New Connection Wizard			
Connection Name Specify a name for this connection to your workplace.			
Type a name for this connection in the following box. Company Name			
AmbiCom Bluetooth			
For example, you could type the name of your workplace or the name of a server you will connect to.			
< <u>Rack</u> Next> Cancel			

6. Insert the Internet Service Provider (ISP)'s phone number. Click Next.

New Connection Wizard
Phone Number to Dial What is the phone number you will use to make this connection?
Type the phone number below. Phone number:
14066890056
You might need to include a "1" or the area code, or both. If you are not sure you need the exits numbers, dial the phone number on your telephone. If you hear a modern sound, the number dialed is correct.
<u>≺Back</u> <u>N</u> ext> Cancel

7. Check if the column box (recommended) if you want to add this connection to the desktop. Click Finish.



8. After you have created a new connection, you should run AmbiCom Bluetooth Neighborhood application first. It will find the Bluetooth devices within the range. If you find devices such as Bluetooth phone/modem or Dial-Up Networking Access point, you can start the connection you

just created by clicking the **AmbiCom Bluetooth** in your desktop, the system will show the following window.

Connect AmbiCom Bluetooth				
R				
User name: Password:	AMBICDM			
Save this user name and password for the following users: Me oply Anyone who uses this computer				
Djalt	14088890056			
Dial	Cancel Properties Help			

9. Click **Dial**, a window will appear for you to select the Phone, which Bluetooth device you want to connect.

Select Device to Connect					
	Name AmbiCom Dial-Up Networking	Address 00:10:7A:56:80:98	Dialu		
			>		
	[OK]	Cancel			

10. In the above window, select AmbiCom Bluetooth Dial-Up Networking (the phone name) and click **OK** to make an Internet connection to ISP.

LAN Access

For LAN Access, the setup is almost identical to Dial-Up Networking. You need to create a *Communications cable between two computers* modem in your system. For details on how to install this modem, please refer to the Installation Section. When you have the *Communications cable between two computers* modem set up, please go to the *Network Connections* to create a new connection. It is not necessary to provide phone number, user name and password to make the connection.

1. Go to Control Panel -> Network Connections, click *Create a new Connection*, and a *New Connection Wizard* window will appear. Click **Next** and you will see the following window.

New Connection Wizard		
Network Connection Type What do you want to do?		
 Connect to the Internet Connect to the Internet so you can browse the Web and read email. Connect to the network at my workplace Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location. Set up a home or small office network Connect to an existing home or small office network or set up a new one. 		
 Set up an advanced connection Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it. < Back Next > Cancel 		

2. Select the Set up an advanced connection option, and click Next to continue the installation.

New Connection Wizard		
Advanced Connection Options Which type of connection do you want to set up?		
 Select the connection type you want: Accept incoming connections Allow other computers to connect to this computer through the Internet, a phone line, or a direct cable connection. Connect directly to another computer Connect to another computer using your serial, parallel, or infrared port. 		
< <u>B</u> ack <u>N</u> ext > Cancel		

3. Select the *Connect directly to another computer* option and click **Next** to continue.

New Connection Wizard
Host or Guest? To connect two computers, your computer must be identified as either a host or a guest.
Choose the role you want for this computer: Host This computer has the information you want to access. Guest This computer is used to access information on the host computer.
< <u>B</u> ack <u>N</u> ext > Cancel

4. Select the *Guest* option and click **Next** to continue.
| New Connection Wizard | |
|---|--|
| Select a Device
This is the device that will be used to make the connection. | |
| Select a device: | |
| < <u>B</u> ack <u>N</u> ext > Cancel | |

- 11. Select the **Communications cable between two computers** modem that you installed before. If you haven't installed that modem, please refer to the Installation Section. Then follow the on-screen instructions to complete the installation.
- 12. After you create a new connection, you should run AmbiCom Bluetooth Neighborhood application first. It will find the Bluetooth devices within the range. If you find a device such as the Bluetooth LAN Access point, you can start the connection you just created and the system will show the following window.

Select Device to Connect		
	Name Address	
	AmbiCom Bluetooth LAN Access Point 00:10:7A:56:80:98	
	OK Cancel	

13. In above window, you selected AmbiCom Bluetooth LAN Access Point. Click **OK** to make an Internet connection.

6. Uninstall the AmbiCom Bluetooth Neighborhood

Please click **Start**, go to **Programs**, find **AmbiCom Bluetooth Neighborhood**, and select the **Uninstall Bluetooth Neighborhood**. Follow the on-screen instructions to finish the uninstallation.

7. Technical Support

Please visit AmbiCom Web site <u>http://www.ambicom.com</u> for online technical support. If you wish to speak to our support staff, please call 1-408-562-0168.

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INFORMATION TO USER:

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient / Relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

RF Exposure Statement :

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.