1. Introduction

1.1. What is BLUEBEE?

BLUEBEE is a Bluetooth USB adapter which provides a wireless network and Internet connection between PCs without access point and any connection cables. With BLUEBEE, you don't need to worry any more about setting up a LAN cable or changing complex network configurations to access Internet with your laptop computer in the office or at home.

PLEASE READ THROUGH THIS MANUAL BEFORE YOU USE BLUEBEE.

1.1.1. BLUEBEE Wireless Network

BLUEBEE can make a wireless network, Point to Point and Multipoint connection (1 Server : 7 Clients)

A wireless network consists of two sides, a Server and a Client. The Server is a PC that is directly connected to Internet through ADSL, Cable Modem or LAN. Where as the Client is a PC that can connect to Internet through the wireless network, which is provide by the Server PC, without having any direct connection sources.

This manual describes, in detail, installing software, setting network configuration, software user manual, and troubleshooting.

The three steps below help you configure a wireless network.

- A. Install PAN and EasyGate on a Server.
- B. Install PAN on a Client(s).
- C. Clients attempt to access the Server.

Server: a PC with a direct connection to Internet (such as ADSL, Cable Modem, LAN, or Dial-up Modem)

Client: a PC without a direct connection to Internet

1.1.2. Main features and specifications

- Wireless Internet and Data sharing
- Plug & Play USB port with high speed support
- Multi-users : Maximum seven PCs can share at the same time
- Bandwidth : Maximum 1Mbps
- Range : 100m
- Security option: Password authentication for network connection
- Specification : Bluetooth Specification 1.1 and PAN Profile V0.96E

1.2. Supplied Items

- Two Bluetooth USB Adapters
- Extension cable
- Program CD
- User Manual

1.3. System Requirements

- CPU : Pentium III or higher is recommended.
- Memory : 64MB or higher is recommended.
- Interface
 - ♦ Server : a LAN card, a USB port, and CD_ROM
 - ♦ Clients : a USB port and CD_ROM
- Operating System: Windows98SE / ME / 2000 / XP

2. Installing Software

In Chapter 2, a step-by-step installing guide will be given for software installation.

Install PAN on both a Sever and Clients, but EasyGate on the Server only!

[SERVER]

2.1. Installing PAN

First, install PAN on the Server. Assuming D:\ is a CD-ROM Drive, do as follows:

- Double click on the Setup.exe icon at D:\ Pan\ Setup.exe.
- You can **install the USB adapter** before installing PAN, but we recommend installing the USB adapter **after PAN installation is complete.**

2.1.1. InstallShield wizard

• Click on "Next" button to start installation.



Figure 2-1: PAN Installing Wizard

2.1.2. Software license agreement

• Click "Yes" to continue the installation if you agree to all the terms in the license agreement.

icense Agreement		6
Please read the following license agree	ement carefully.	
Press the PAGE DOWN key to see th	e rest of the agreement.	
MiniBluelet Copyright (C) 2002 IVT. All Rights Reserved		
You should carefully read the following software. Unless you have a different use of this software indicates your ac	g terms and conditions before t license agreement signed by ceptance of this license agree	installing and using this IVT Corporation your ment and warranty.
IVT OBJECT CODE LICENSE AGF	REEMENT	<u>.</u>
Do you accept all the terms of the pre- setup will close. To install MiniBluelet.	ceding License Agreement? I Pan, you must accept this ag	f you choose No, the reement.
IIShield		

Figure 2-2: Software License Agreement

2.1.3. Choose destination location

- The default location is C:\ Program Files\ IVTCorporation\ MiniBluelet\ Pan.
- Click "Next" button to install program to this folder.
 - (Click "Browse" to select different destination folder.)

nstallShield Wizard	×
Choose Destination Location Select folder where Setup will install files.	
Setup will install MiniBluelet_Pan in the follow	ing folder.
To install to this folder, click Next. To install to another folder.	o a different folder, click Browse and select
Destination Folder	
C:\Program Files\IVT Corporation\MiniBlue	let\Pan Browse
istallShield	
	< <u>B</u> ack <u>N</u> ext> Cancel

Figure 2-3: Choose Destination Location

2.1.4. Windows2000 or WindowsXP configuration

2.1.4.1. Digital signature [Windows 2000 only]

 If you are using Windows 2000, it might prompt "Digital Signature Not Found" form as follows. In this case, click "Yes" to continue the installation.



Figure 2-4: Digital Signature Prompt [Windows 2000]

2.1.4.2. Installing BT network adapter [Windows XP only]

 If you see similar message as [Figure 2-5] in Windows XP, click "Continue Anyway" to continue the installation.

Hardwa	ire Installation
<u>.</u>	The software you are installing for this hardware: BT Network Adapter has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>) 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

Figure 2-5: BT Network Adapter Installation Message [Windows XP]

2.1.5. InstallShield wizard complete

- If you see as [Figure 2-6], PAN is successfully installed on your computer.
- [Windows98SE / ME] User : Restarting PC is required to accept changes.
- [Windows2000 / XP] User : Restarting PC is not required.

InstallShield Wizard	
	InstallShield Wizard Complete Setup has finished installing MiniBluelet_Pan 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.
	KBack Finish Cancel

Figure 2-6: PAN Installation is Completed

Note:

Windows98SE / ME Users may experience a failure of locating device drivers while installing BT network adapter during the PAN software installation process.

In this case, you can install the BT network adapter manually using

C:\ ProgramFiles\ IVTCorporation\ MiniBluelet\ Pan\ Device\ win9x \ IVTnetBT_For98.inf

Please refer to "Chapter 6. Troubleshooting" for more details.

2.1.6. PAN first run configuration

Plug in USB Adapter to any empty USB port.

[Windows98SE / ME] User: After restarting PC, PAN First Run Configuration window will pop up automatically.

[Windows2000 / XP] User : Double click on the PAN icon from the Desktop.

- Type user name for 'Device Name'. (Example: BT Server, BT Client)
 This name will appear on the BlueNetwork list [Refer to Figure 3-1].
- Type passkey in, and retype the passkey to confirm.
- Select the type of your device. For a notebook computer, select 'Laptop', and otherwise, select 'Desktop'.
- Check mark on "Automatically start Pan" if you want to make PAN application operate immediately whenever the system is booted.
- You need to do this initial configuration only once, and the configuration is changeable.

First Run Confi	guration
You can change I others to access y	the name of your device and input the passkey for your device.
Devcie Name:	BT 2000 Server
Passkey:	xxxx
Confirm:	xxxx
Device Type	
Please selec	t the type of your device.
C Desktop	• Laptop
Automatic Start —	
You can decide w after boot the syste	hether to start Pan application immediately em evey time.
🔽 Autor	natically start Pan
	QK <u>C</u> ancel
<u></u>	

Figure 2-7: Initial PAN Configuration

2.1.7. Select work mode

- You might see a notice as [Figure2-8], if the USB Adapter is not plugged in.
 (If you have completed section 2.1.6 successfully, you may skip this section.)
- Make sure the USB adapter is properly plugged in, and click "Exit" button.
 And then run PAN application again.

It might take a few minutes to configure the USB Adapter.

elec	t Work Mode
	System has detected no Bluetooth USB or PCMCIA device.
Γ	Notice
	 If you have a USB or PCMCIA device, make sure that you have plugged it in and restart PAN.
	2> Press [COM] button to configure the UART Settings if a UART device has been plugged in COM port.
	3> Press [Exit] button to exit application.

Figure 2-8: Select Work Mode

2.2. Installing EasyGate

After completing PAN installation, install EasyGate on the Server.

EasyGate is an Internet sharing program, which enables the Clients to share the Internet connection through the Server.

If your Internet connection is LAN, ADSL, or Cable Modem, then refer to section 2.2.1 to install EasyGate. If your Internet connection is a dial-up modem, refer to section 2.2.2 to install EasyGate.

2.2.1. If you have LAN, ADSL, or Cable Modem

Before installing EasyGate, run PAN by double clicking PAN icon on the Desktop.

The PC on which you are installing EasyGate needs to be connected to Internet before you install EasyGate.

Assuming D:\ is the CD-ROM Drive,

Double click "D:\ EasyGate\ Setup.exe" to run installation program.

2.2.1.1. Choosing network adapter

- After EasyGate 'Finish checking IP address for using, choose network adapter that is connected to the Internet, and then click "Configuration" button.
- In Windows98SE / ME, the name of network adapter is usually the manufacture's model name. In Windows 2000 / XP, the name of network adapter can be found under "Network Environment" properties.



Figure 2-9: Choosing Network Adapter

Reboot your computer to complete the installation process.

syGate Install	>
Reboot your computer Close all programs.	to apply.
	1

Figure 2-10: Installation Complete

2.2.1.2. Confirmation of software installation

After rebooting your computer, PAN and EasyGate will run together at the same time.

• A notice window will pop up for PAN information.



Figure 2-11: PAN Information

 You can also find 'Blue Star' icon and the 'EasyGate network' icon on the right corner of the window taskbar.



Figure 2-12: Blue Star Icon and EasyGate Icon

2.2.2. If you have Dial-up Modem (if you have high speed Internet, refer to 2.2.1)

Before installing EasyGate, run PAN by double clicking PAN icon on the Desktop.

The PC on which you are installing EasyGate needs to be connected to Internet before you install EasyGate. Therefore connect to Internet using 'Dial-Up Networking' before you install EasyGate. (If you are using customized dial-up Internet program, you may not be able to use EasyGate. Please refer to 'Chapter 6. Troubleshooting' for more details.)

Assuming D:\ is the CD-ROM Drive,

Double click "D:\ EasyGate\ Setup.exe" to run installation program.

2.2.2.1. Choosing network adapter

 After EasyGate 'Finish checking IP address for using', choose "Dial-Up Adapter" as a network adapter, and then click "Configuration" button.

	. IP Configuration	Finish checking IP address for using
24	IP Address Subset Mask	192.158.100.1
2	Choose network adapter	hat is connected to internet.
1	Choose network adapter	Lihat is connected to LAN.
6-2	TTT N.A. and Adverter	

Figure 2-13: Choosing Network Adapter

Reboot your computer to complete the installation process.

EasyGa	te Install	×
Rebo Close	ot your computer all programs.	to apply.
	OK	

Figure 2-14: Installation Complete

 After rebooting, you have lost dial-up Internet connection and as a result, you will see following message pop up. Click on "Ok" button.

EasyGat	e2002
	Your network is not connected to Internet now. If your computer uses Modem or xDSL(PPPoA Type), you should make a connection by using DUN(Dial Up Networking)

Figure 2-15: Network Connection Confirm Message

 When 'EasyDial' window appears, enter 'User name' and 'Password', choose 'Network name', then click 'Dial' button.

🖢 EasyDial	2
Login User name :	granada1
Password :	*****
	I I Save User name
	Save Password
Dial	
Netrowk Name :	My Connection 🔹
Phone Number :	01421
Dial	Exit

Figure 2-16: EasyDial window

[CLIENTs]

2.3. Installing PAN

Install PAN application on Clients. The installation procedure is same as one's on the Server.

Refer section 2.1 (page 3 ~) for step-by-step installation guide.

DO NOT INSTALL EasyGate ON CLIENTS.

3. Network Configuration

In Chapter 3, a detailed explanation of network configuration between the Server and the Clients will be given.

' Computer name' and "Workgroup' of Server and Clients are set as indicated in the following table.

	Computer name	Workgroup
Server	Bluebee Server	Bluebee
Client	Bluebee Client	Bluebee

You can check your computer name and it's workgroup as follows.

[Windows98SE / ME] User : 'Network Neighborhood' -> ' Properties' -> ' Identification'	Tab
[Windows2000 / XP] User : 'My Computer' -> 'Properties' -> 'Network Identification'	Tab
Please, make sure to have same 'workgroup' names for all computers.	

3.1. Using PAN

• Clients attempt to access the Server.

(Before you attempt to access the Server, make sure the Server is running 'PAN, and 'EasyGate', on other hand, the Client is running 'PAN'.)

3.1.1. Searching BlueNetwork list

- Double click on the Blue Star icon on the taskbar of a Client to join BlueNetwork.
- Click on ' Search' button to search more Bluetooth devices around.

K list		
	A A	

Figure 3-1: Search for Wireless Network

3.1.2. Joining BlueNetwork

- Select a desired Server from the BlueNetwork List, and click 'Join' button. Or you can simply double click on the Server name to join BlueNetwork.
- Enter the passkey as you have set on [Figure 2-7].

Device Address:	00:07:7F:FF:20:10
Passkey:	NNNN
Time Left:	11
	🔽 Save Passkey

Figure 3-2: Enter Passkey to Join BlueNetwork

 When you have successfully joined BlueNetwork, acquired IP address will be noticed and the 'Blue Star' icon on the taskbar will start spinning. If you don't see the notice or the acquired IP address is not 192.168.X.X, then disconnect the connection and try again.

IP address: 192.168.100.1
Figure 3-3: IP Address is Acquired

 You have successfully configured the wireless network between a Server and a Client, and now Client can also use the Internet.



Figure 3-4: Computers Near Me

<u>. If a Client uses Internet again after it is rebooted, it must be connected with a Server as above process of 3.1.2. ' Joining BlueNetworking'</u>

4. Software Manual

In chapter 4, you will find more detailed user manual and explanation about PAN and EasyGate program.

[PAN]

4.1. PAN menu

Right click on the Blue Star icon to see the PAN menu.



Figure 4-1: PAN Menu

4.2. About PAN

 It displays software version as well as other device information such as Device Name, Manufacturer, and Device Address. Device Name is the name that appears on the BlueNetwork List when other devices search on BlueNetwork.

1	VT
IVT Corporati	on Copyright(C) 2001
_ Version	
PAN: PAN-WI	N32-1.8.5-280802
Stack: STK-WIN	132-3.4.0-070602
Device Informatio	n
Device Name:	BT 2000 Server
Manufacturer:	Cambridge Silicon Radio
Device Address:	00:07:7F:FF:06:04
1	

Figure 4-2: About PAN

4.3. Joining BlueNetwork

- By selecting a desired Server from the BlueNetwork List, it configures wireless network with the Server and allows for Clients to share the Internet through the Sever.
- From the PAN menu, Click 'Join BlueNetwork'. Or simply double click on the 'Blue Star' icon on the taskbar.
- Click 'Search' button to search more Bluetooth devices around. Device names in blue color are available devices for wireless network connection.
- Select a desired sever name, and click ' Join' button.

When 'Input Passkey' window appears, enter the passkey that had been set on the Server.

BlueNetwork 접속	×
ॐ──BlueNetwork(s) 탐색	
~ 네트워크 리스트	
BT 2000 Server[00:07:7F:80:00:01]	
BT kennegy[00:07:7F:FF:20:19]	
사용가능 이스토리	
네트워크 리스트에서 접속하고자 하는 서버 컴퓨터를 선택한 후 [접속] 을 클릭합니다. 더 많은 네트워크를 찾기를 원하시면 [탐색]을 선택합니 다.	
접속 탐색 취소	

Figure 4-3: Joining BlueNetwork

After wireless connection is established, the Server assigns IP address to the Clients, allowing them to share the Internet through the Server. The Blue Star icon on the taskbar starts spinning as soon as the connection is established. If it stops spinning, it means the connection has been dropped and you need to reestablish the connection. If you place the mouse pointer on the spinning Blue Star icon, it will display acquired IP address and this means the connection is in normal mode. If you're having trouble establishing wireless network, exit PAN and try ' Search' and ' Join' again.

4.4. Connection Status (User Management)

- When the wireless network is established, 'Connection Status' will appear on Client's PAN • menu and 'User Management' will appear on Server's PAN menu.
- 'RSSI(Receiver Signal Strength Indicator)' on Connection Status window indicates the strength of receiver signal. As the level goes down, the connection status becomes better.
- To disconnect the connection between the Server and Clients, click 'Disconnect' button from [Figure 4-6], or select device and click 'Disconnect' button from [Figure 4-7].





Figure 4-4: Connection Status on Client's Menu Figure 4-5: User Management on Server's Menu

	Data Rate	
all	In: 0 Bytes/s	
RSSI:	Out: 238 Bytes/s	

Figure 4-6: Connection Status

User	Management		×
g	Following users have c	connected to your computer.	
	User Name	Address	I
	BT 2000 client	00:07:7F:C0:00:01	
	Disconnect	OK Befresh	

Figure 4-7: User Management

4.5. Option settings

 The sub sections include Access Passkey, Advanced Settings, NAP settings, and Automatic start option.

4.5.1. Change access passkey

Setting Access Passkey prevents any unauthorized access to the Server. The default Passkey is 'root', and you can change Passkey by entering a new Passkey into 'Passkey' and 'Confirm' boxes. NAP is an acronym of Network Access Point and can be used as an option to configure a server. NAP is useful to expand LAN cable wired network such as in small office or home to a wireless network. But NAP is not applied to WAN (such as ADSL and cable modem). Since NAP performs software bridge function, it also increases the CPU usage level. Therefore, **it is recommended not to use NAP option unless it is necessary.**

Change Acc	ess Passkey	
?	Use Fixed Passkey	
	Passkey: ****	
	Confirm:	
	Change Passke	y
∟ ⊢Advanced S	ettings	
L PULATAANA	dougoo and congoo collando	
Bluetooth	device and service settings.	
NAP Setting	device and service settings.	
NAP Setting	device and service settings. Advanced is iss Outside Networks	
NAP Setting	device and service settings. <u>Advanced</u> is iss Dutside Networks	
- NAP Setting C Acce Netcard: - Automatic S	device and service settings. Advanced s ss Dutside Networks tart patically start PAN after boot the system	
NAP Setting AP Setting C Acce Netcard: Automatic S Autor	device and service settings. <u>Advanced</u> is is: Dutside Networks tart tart matically start PAN after boot the system	

Figure 4-8: Changing Passkey

4.5.2. Advanced settings

 Advanced Settings are about the Bluetooth options and is recommended to use provided default values.

4.5.2.1. Security

• This tab includes 'Security Mode' and 'Miscellaneous' subsections. Set the Security Mode on 'No security', then 'Password window' doesn't appear when you access the device.

Advanced Settings	×
Security Optimization Bluetoph Device	
5	
Security Mode	
No security	
IF Excuring too each device	
Miscolarisour.	
P Enable connectability	
🕫 Enable encryption	
🏳 Weikle to office de vision	
DK. Cancel	4059

Figure 4-9: Security

4.5.2.2. Optimization

This tab has subsections including 'Search mode', 'Device Shortcut', and 'Automatic Join'.
 In case you previously save the device address of then server as shown in [Figure 4-3], search time will possibly be saved.

-		
	ianach Mode In Automatic Search Mode, th rativerk(z), in Manual Search? monuolly	r program will automatically search Vicide, you must search network [s]
	(* jouromatic t	ieach
	C ManualSa	sich
-	Device Shortout	
1	input address and name of the passching	remote device directly to serve time to:
i	Bluetooth Device Address:	00 : 00 : 00 : 00 : 00 : 00
1	Bluetoooth Device Name:	
3	Automatic Join	
	T Automatically join last	BlueNetwork when Pan dist
	· · · · · · · · · · · · · · · · · · ·	

Figure 4-10: Optimization

4.5.2.3. Bluetooth device

• You can check Device Name and Device Address.

	revice	
Device Setting		
General properties of t		
Device Name:	BT 2000 Server	
Device Address	00:07 7F S0:00:01	
BT client BT client	08.02.77.60.00.01 08.02.77.00.00.01 08.02.77.00.00.01	
<	1 N	
	Delete	

Figure 4-11: Bluetooth Device

4.6. Exit

• Exit PAN first before you turn off or reboot you PC.



Figure 4-12: Exit on PAN Menu

[EasyGate]

4.7. EasyGate menu

Right click on the 'EasyGate Network' icon to see the EasyGate menu.



Figure 4-13: EasyGate Menu

4.8. Open

• You can configure Network Adapter information and options.

'Adapter to the Internet' will select the actual LAN card. Uncheck mark on 'Use DHCP', then click 'DHCP Config..'. button to assign IP address manually to Client.

yGate 2002 Configuration	
Network Adapter Information	
Adapter to the Internet :	Local Area Connection 🔄 👱
IP Address :	192.168.0.157
Subnet Mask :	255.255.255.0
Gateway :	192.168.0.229
Adapter to local :	Local Area Connection 2*
IP Address :	192.168.100.1
Subnet Mask :	255.255.255.0
Gateway :	
DNS Server :	168.126.63.1,168.126.63.2
Options	
🗵 Start program when car	nputer boo
🗟 Start the NAT service w	hen program sta
Session Time TCP(min) 10 UDP(min) 1
🖙 Use DHCP	DHCP Config
OK	Cancel

Figure 4-14: EasyGate Configuration

4.9. Miscellaneous

If you want to close the Internet sharing and network service, click 'Stop Service' from the menu. If you want to completely exit program, click 'Exit' from the menu. If you need any additional help, click 'Help' from the menu.

5. Uninstalling Software

In chapter 5, you will find out how to uninstall program successfully.

Important! For Server, uninstall EasyGate first, before you uninstall PAN.

[PAN]

5.1. Uninstalling PAN

Exit PAN first, from the PAN menu and remove Bluetooth adapter prior to uninstalling PAN software.

If this computer is a Server, then make sure you have already uninstalled EasyGate before you continue uninstalling PAN. Refer section 5.2 to uninstall EasyGate.

5.1.1. Run ' Uninstall PAN'

Click on 'Start' -> 'Programs' -> 'MiniBluelet_Pan' -> 'Uninstall Pan'.



Figure 5-1: Uninstalling PAN

Press ' OK' to continue PAN uninstallation process.





PAN Uninstall Wizard will be executed.



Figure 5-3: PAN Uninstall Wizard

Uninstallation Complete

[Windows98SE / ME] User : Reboot you PC to complete uninstallation. [Windows2000 / XP] User : Rebooting is not required.



Figure 5-4: PAN Uninstallation Complete

5.1.2. PAN uninstallation troubleshooting

 If you encounter any errors during uninstallation process, exit PAN Uninstall Wizard, and try to run it again.

[EasyGate]

5.2. Uninstalling EasyGate

Exit EasyGate first, from the EasyGate Network icon in window task bar. Then run EasyGate uninstall program.

5.2.1. Run ' EasyGate Uninstall'

Click on 'Start' -> 'Programs' -> 'MiniBluelet_Pan' -> 'EasyGate Uninstall'.



Figure 5-5: Uninstalling EasyGate

• Click 'Uninstall' button. Uninstallation does not require rebooting.

en and a state of the state of	yrann		×
Click 'Uninstal	l' button to EasyG	ate uninstallation,	
	Uninstall	Cancel	

Figure 5-6: EasyGate Uninstall

6. Troubleshooting

Here are the general tips and troubleshooting to the most common problems you might encounter.

6.1. USB Adapter Initial Installation Error

If you plug in USB Adapter to an empty USB port after you have installed PAN, then Windows will automatically install its driver. But, if you see an error message saying "Cannot find Btusb.sys", click on 'Browse' to locate the file from

'C:\ Program Files\ IVT Corporation\ MiniBluelet\ Pan\ Driver\ USB\ BTusb.sys' .

Once USB is installed, Windows will be able to recognize it in next time.

6.2. BT Network Adapter First time Installation Error

While installing PAN, if you cannot find BT network adapter driver, then locate file from

'C:\Program Files\IVT Corporation\MiniBluelet\Pan\Device\win9x\IVTnetBT_For98.inf'.

If you encounter BT network adapter related errors after rebooting your system, remove adapter and reinstall it. This kind of error will not occur in the second installation attempt.

6.3. Running PAN for the First Time

When you initially run PAN under Windows98SE / ME, it might take a few minutes for the system to allocate MAC address to BT network adapter, and an error might occur due to this delay. If an error occurs in the system, Exit PAN and reboot your computer. At this time, the system will store MAC address, and the same problem will not be repeated.

6.4. Internet Connection Problem with LAN Adapter

It might raise an Internet connection problem when a PC, which is running Windows98SE / ME with a LAN card but uses the Internet through USB adapter as a Client in wireless network, now wants to switch back to LAN card to use the Internet. This is because the system overwrites the default Gateway routing table with Bluetooth Adapter Gateway when you install USB adapter under Windows98SE / ME. (Note: you can verify this using ' route print' commend on MS-DOS prompt.) This problem is due to the fact that Windows98SE / ME manages Route Table in static manner depending on the network settings. Whereas Windows2000 / XP does not encounter to this particular problem since it manages Route Table in dynamic manner depending on the network cards.

To resolve this problem, 'My Computer' -> 'Properties' -> 'Device Manager' Tab -> Network adapters -> Select 'BT Network Adapter' -> 'Properties' -> Check mark on <u>'Do not use this device</u> (disable) '.

If you want to use BT network adapter again to be a client on a wireless network, disable the LAN

card in the same manner and enable BT Network Adapter.

6.5. 'Select User Mode' window prompt while running PAN

If 'Select User Mode' window prompts while running PAN, it might be the case where the system cannot recognize the USB adapter. Please verify if the USB adapter is properly plugged in.

If you are still encountering the same message, check 'Device Manager' from 'My Computer' and see if USB is properly installed. And if not, unplug the USB adapter from the USB port and plug in again so that system can install the USB adapter automatically.

6.6. PAN Troubleshooting

After you have established connection to BlueNetwork, if you cannot use the Internet, then open MS-DOS prompt and type 'ping <u>www.yahoo.com</u>'. If the result is 'destination is unreachable ' or ' Hardware error ', then reboot your computer and run PAN again.

6.7. Joining BlueNetwork Troubleshooting

When you join the BlueNetwork, you will see a message like [Figure 6-1] and then it will display 'IP address acquired' message as in [Figure 3-3].

If you only see a message like [Figure 6-1], without 'IP address acquired message, then it means IP address was not successfully acquired. In this case, exit PAN and run PAN again, and then try to join again.



Figure 6-1: Device Connecting Message

6.8. Confirmation of hardware installation

Once you have installed PAN, hardware installation is done automatically (plug-and-play) by plugging the USB adapter into computer.

[Windows98SE / ME] User: Check hardware installation of these three items.

Right click on 'My Computer' -> 'Properties' -> 'Device Manager' tab.

- Network adapters : BT Network Adapter
- Universal serial bus controllers : Bluetooth USB
- BlueletMgrDevice : Bluelet Device Manager

General	Device Ma	nager Hardware	Profiles Perform	iance
 Vie 	w devices b <u>i</u>	y <u>t</u> ype 🔿 V	iew devices by <u>c</u> o	nnection
	omputer			
	BlueletMgr	Device		
		t Device Manager	l	
	r CDHUM I Diek driver			
	Disclay ad	» antere		
	 Eloppu dist 	apiers controllers		
	h Hard disk	controllers		
) Infrared de	vices		
E S	Keyboard			
÷	Modem			-
Ē.	Monitors			
- E	Mouse			
÷	Network a	dapters		
	📳 BT Ne	twork Adapter		
	📲 Intel 8	255x-based PCI E	thernet Adapter (1	0/100)
	HIN LDA	00F	74	
P <u>r</u> o	perties	Refresh	Remove	Pri <u>n</u> t
			3	J

Figure 6-2: [Windows98SE / ME] Device Manager

[Windows2000 / XP] User: Check hardware installation of these three items.

Right click on 'My Computer' -> 'Properties' -> 'Hardware' Tab -> 'Device Manager'.

- Network adapters : BT Network Adapter
- Universal serial bus controllers : Bluetooth USB
- Bluelet device manager : Bluelet Device Manager



Figure 6-3: System Properties



Figure 6-4: [Windows2000 / XP] Device Manager

6.9. Dial-Up Networking

[Windows98SE / ME] User : 'Start' button -> 'Settings' -> click 'Dial-Up Networking'.
 Or 'Start' button -> 'Programs' -> 'Accessories' -> 'Communication' -> 'Dial-Up Networking'
 [Windows2000 / XP] User : right click 'My Network Places' -> 'Properties' -> 'Make New



Figure 6-5: Dial-Up Networking

Double click on ' Make New Connection'

💼 Di	al-Up	Netwo	king	1						
<u>F</u> ile	<u>E</u> dit	⊻iew	Fav	vorites <u>T</u> ool	ls <u>C</u> onnecti	ons	<u>H</u> elp			
🖛 В.	ack +	+ -	È	Q Search	Folders	٢	3	9	9 B	× »
Addre	ess 🝺	Dial-Up	Netv	vorking					•	∂Go
Di	3 al-U	p Ne	tw	orking	Make New Connectio	w				
Mal	ce Nev	v Conne	ectio	n						
l 1 objec	ot(s) sel	lected								

Figure 6-6: Make New Connection

• Type a name for the computer you are connecting to.

In this manual, we used ' My Connection' as a name.



Figure 6-7: Make New Connection

• Type the phone number of the Internet Service Provider, and click ' Next' .



Figure 6-8: Enter ISP's dial-up phone number

• You have completed creating a dial-up networking connection. Click 'Finish' button.



Figure 6-9: Finish creating a dial-up connection

 From 'Dial-Up Networking' window, you can find 'My Connection' icon has been generated. Double click on 'My Connection' icon.



Figure 6-10: My Connection icon

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Enter 'User name' and 'Pass	sword', then click 'Connection' button.
📲 Connect To	? <u>×</u>
P	My Connection
User name:	granada1
Password:	NHMHHHH
	☑ Save password □ Connect automatically
Phone <u>n</u> umber	: 9 01421
Dialing from:	New Location
	Connect Properties Cancel

Figure 6-11: Connecting to ISP

• After you see 'Internet connection established' message pop up, you can surf the Internet using Internet browser such as Internet Explorer, Netscape.

* **Notice1** : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

* **IMPORTANT NOTE**: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

FCC INFORMATION

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The equipment has been tested and found to comply with the limits for 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 instruction, may cause harmful interference to radio communication. However, there is no grantee that interference will not occur in a particular installation. If this equipment dose 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:

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

The user should not modify or change this equipment without written approval Form J communications Co., Ltd. Modification could void authority to use this equipment.

Product Specifications

Key Features				
Bluetooth Specification	V 1.1 compliant / class1			
USB Specification	V 1.1 compliant			
Radio output power	1 to 10 dBm (100 m range)			
Connection speed	1 Mbps across air			
Internet Connection up to 7 clients without Access Point simultaneously				
Support O/S Windows 98SE / ME / 2000 / XP				
Internet connection sharing router - One click S/W				
Software and firmware are upgradable				
Specifications				
Operation frequency	2.402 ~ 2.4835 GHz (ISM band)			
Tx power	10 dBm max with power control			
Sensitivity	-80 dBm			
Data rate	723.2 Kbps			
Security	Paring / Digital Encryption / Authentication			
DC power	5.0 V ± 10 %			
Operation temperature	-10 ~ 55			
Humidity	10 % ~ 90 %			
Dimension	59 X 33 X 11 mm			

Limited Product Warranty

We, JCommunications Co., Ltd, warrant this product against defects in materials and workmanship. If a defect is discovered, we will, at its option, repair or replace the product at no charge provided it is returned during the warranty period to the authorized dealer from whom you purchased the product, or directly to our company. Proof of purchase may be required.

If the product has been damaged by accident, abuse, misuse, or misapplication, a limited warranty will be applied with appropriate service charge on your cost.

We recommend you fill out the following Personal Reference Sheet, and keep it with the proof of purchase for future convenience.

Warranty Certificate

Thank you for choosing our product. The warranty period starts on the day you purchase our product. Therefore we recommend you to keep this certificate with the proof of purchase, and receive full coverage of warranty.

Warranty Details

- 1. Warranty period is 1 year from the day of purchase. (Only for defects in materials and workmanship.)
- 2. For the following cases, a limited warranty will be applied with appropriate service charge on your cost.
 - * Damaged by accident, misuse, or misapplication.
 - * Damaged by natural disaster.
 - * Damaged by using incorrect voltage source.
 - * Damaged by bad connection
- 3. We keep the parts of specific model for three years for replacing purpose.
 - This 3-year period start from the discontinuation date for each model.

Personal Reference Sheet

Customer Compensation Standard for this product follows the customer compensation regulation by the Ministry of Finance and Economy.

Product		Bluetooth USB Adapter BLUEBEE BA1000U		
Serial Number				
Purchase Date				
Warranty Period		Until, (Month Day, Year)		
Customer	Name			
	Phone #			
	Address			
Dealer	Name			
	Phone #			
	Address			

We will keep providing updated version of the software for this product. You can download the newest version from our website at <u>http://www.bluebee.co.kr</u>.

If you have any comments or questions about our product, you can email us at

<u>bluebee@bluebee.co.kr</u> Once again we thank you for choosing our product, and hope you enjoy the wireless Internet sharing.