Bluetooth 56K Wireless Modem

User's Manual



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1. Introduction

The Bluetooth 56k wireless modem is a 56 K modem equipped with Bluetooth function. It provides a standard V.90 Modem for WAN communication and access to Internet. With a Bluetooth adapter, you can dial up to access the network via this device wirelessly. Bluetooth technology brings you more freedom and mobility; it allows you to mobilize your PC within the effective range of this Bluetooth modem.

Package Contents

- Bluetooth 56K Wireless Modem
- AC adapter
- RJ-11 phone cable
- RS-232 Cable (DB-9pin)
- Quick Start Guide
- Driver CD (User's Manual inside)

Note:

If any of these items are missing from the retail package, contact your supplier immediately.

2. Specifications

2.1. Features

V90 Modem

- ITU-T V9.0 and K56flex
- V.34 (33.6 kbps), V.32 bis, V.32, V.22 bis, V.22, V.23, and V. 21; Bell 212A and 103
- Flow control and speed buffering
- Automatic format/speed sensing
- V.22bis fast connect
- One RS232 connecter for Host PC(DTE) interface

Bluetooth Function

- Wireless interface complies with Bluetooth Core Specification V1.1
- Main chip : CSR BlueCore 2
- Protocol : Bluetooth 2.4 GHz ISM band frequency hopping
- Output Power: Class 1 Bluetooth radio
- Data Rate : 723 kbps

2.2. Specifications

- Communication software compatible AT command sets
- 3.3V low power consumption
- Bluetooth or RS-232 (D-SUB9) interface Switch
- Provides LEDs for showing status information

2.3. Certification

• FCC Part 68, 15 and CE

2.4. Mechanical

• Dimension :96 x64 x 22.1 mm (L x W x H)

2.5. Environment Operating Ranges

- Operation : $0 \sim 50$ °C, Humidity $10 \sim 90\%$
- Storage : -20 ~ 90 °C, Humidity 10 ~ 90%

2.6. Power Consumption

- Operation : 175mA / 5V (Avg), 220mA/5V (Max)
- Standby : 52mA/5V

2.7. LED Indication

- Power LED: Power ON/OFF
- Link LED: Bluetooth Link
- ACT LED: Bluetooth Active
- OH LED: Off-Hook
- TX LED: Data Transmit
- RX LED: Data Receive

2.8. Driver Support

• Windows 98SE, Windows ME, Windows 2000, Windows XP

3. Product Shape





- 1. Power LED indicator: Lights when the Bluetooth Modem powers on.
- 2. Link LED indicator: Lights when Bluetooth Modem is linked by a remote device.
- 3. ACT LED indicator: Blinks when data is transferring via bluetooth connection.

4. **OH LED indicator**: Lights when Bluetooth Modem is dialing or gets connected.

- 5. **TX LED indicator**: Blinks when Bluetooth Modem is transmitting data.
- 6. **RX LED indicator**: Blinks when Bluetooth Modem is receiving data.
- 7. Reset Button: To reset Bluetooth Modem.
- 8. Antenna: Bluetooth 2.4GHz antenna.
- 9. RJ-11 Socket: PSTN (Telephone) Line in for Modem.
- 10. Switch: To select generic or Bluetooth Modem mode.
- 11. **RS-232 connector**: Connects to PC's COM port when it is in generic mode.
- 12. **Power Jack**: Power source connector.

4. Bluetooth Modem Mode

4.1. Getting Started

- 1. Turn the switch to "BT" side
- 2. Connect the telephone line to the RJ-11 socket
- 3. Plug in the AC adapter to the power outlet.

4.2. How to dial-up under Windows

The Following procedures are using the Widcomm bluetooth software as reference on how to use the Bluetooth Modem to access the Internet. Be sure that the Bluetooh software is installed properly with your Bluetooth device.

For Windows 98

1. Double click the "**My Bluetooth Places**" icon on the desktop. The following window will pop-up. Double click the "**Find Bluetooth Devices**" icon.



2. Bluetooth software will start searching for other Bluetooth devices. Double click the "**Bluetooth Modem**" icon.

🕵 My Bluetooth Places\Entire Blue	etooth Neigl	hborhood		_ 🗆 🗵
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>B</u> luetooth <u>G</u> o	F <u>a</u> vorites	<u>H</u> elp		<u> </u>
Generation → Constraint → Cons	X Cut	Copy Paste	e Delete	**
🛛 Address 🖳 My Bluetooth Places\Entir	e Bluetooth Ne	eighborhood		•
Entire Bluetooth	100 and 100 an	9500	<mark>Щ</mark> А7V266-Е	
Neighborhood	F	174		
This folder displays the Bluetooth devices in the neighborhood.	Bluetooth Modem	NEC		
To find other devices in the area or to refresh the list of devices, <u>click here.</u>		d	۶	
To cancel the search for devices, press ESC.				
Searching for nearby Bluetooth devices				

3. The service discovery starts.

🚠 My Bluetooth Places\Find B	luetooth Device	s\Bluetooth N	lodem	_ 🗆 ×
<u>F</u> ile <u>E</u> dit ⊻iew <u>B</u> luetooth	<u>G</u> o F <u>a</u> vorites	<u>H</u> elp		<u>19</u>
Generation Sector Sect	Cut	Copy Pas	te Delete	»
Address 🚄 My Bluetooth Places	Find Bluetooth Dev	vices\Bluetooth I	Modem	•
Device : Bluetooth Modem This folder displays the Bluetooth services offered by the remote device listed above. For a brief description of each service, select the service name. For a context sensitive menu, right-click a service name.	Discovering Available			
Discovering services available on Blu	etooth Modem			

4. Windows will ask for a 4-digit PIN Code to pair with the Bluetooth Modem. You can find the PIN Code on the bottom of your Bluetooth modem.

Click on the balloon.



5. Enter the PIN Code and click the **"OK**" button.



6. When Bluetooth Modem is paired, it will show 3 services. Double click **"Dial-up Networking on Bluetooth Modem"** icon.



7. When the connection is established, the service icon will change the color to green.

🚠 My Bluetooth Places\Find Bluetooth Devices\Bluetooth Modem	_ 🗆 ×
<u> </u>	<u> </u>
↔ ↔ ↔ ↔ ↓ </td <td>**</td>	**
Address 🚘 My Bluetooth Places\Find Bluetooth Devices\Bluetooth Modem	•
Image: Second system Image: Second system Dial-up Fax on Second system Second system	
Device : Bluetooth Networking on Bluetoo Bluetooth Modem Modem Modem Bluetooth Bluetooth	
This folder displays the Bluetooth services offered by the remote device listed above.	
For a brief description of each service, select the service name.	
For a context sensitive menu, right-click a service name.	

8. If you are using the dial-up connection first time, the following window will pop out. Type in the area code of your location, then click the **"Close"** button.



9. The '**Connect To'** window will pop-up. Please enter 'User name', 'Password' and the 'Phone number'. This information is provided form your ISP (Internet Service Provider). Click '**Connect'**.

📲 Connect To		? ×
Bka	etoothConnec	
<u>U</u> ser name:	User name	_
Password:	XY====.*	
	Save password	
Phone <u>n</u> umber:	12345678	
Dialing from	New Location	Dial Properties
	Connect	Cancel

10. The Bluetooth Modem starts dialing.

🛃 Conne	ecting to BluetoothConnec		×
3.	Status: Dialing	Cancel	

11. The device is working fine , when connected

For Windows ME

1. Double click the "**My Bluetooth Places**" icon on the desktop. Double click the "**Find Bluetooth Devices**" icon.



2. Bluetooth software will start searching for other Bluetooth devices. Double click the "**Bluetooth Modem**" icon.



3. The service discovery starts.



4. Then windows will ask you a 4-digit PIN Code to pair with the Bluetooth Modem. You can find the PIN Code on the bottom of your bluetooth modem.



5. Enter the PIN Code and click the "OK" button.



6. When Bluetooth Modem has been paired, it will show 3 services. Double click "**Dial-up Networking on Bluetooth Modem**" icon.



7. When the connection is established, the service icon will change the color to green.



8. If you are using the dial-up connection first time. Type in the area code of your location, click '**Close'**.



9. The '**Connect To**' window will appear. Please enter 'User name', 'Password' and 'Phone number'. This information is provided by your ISP (Internet Service Provider). Click '**Connect**'.

🐴 Connect To	<u>? ×</u>
	BluetoothConnection
User name:	User name
Password:	
	Save password
	Connect automatically
Phone number:	12345678
Dialing from:	New Location Dial Properties
	Connect Properties Cancel

10. The Bluetooth Modem starts dialing.



11. When connected, you are able to use internet for example.

For Windows 2000

1. Double click '**My Bluetooth Places**'icon on the desktop. Double click '**Find Bluetooth Devices**' icon.



2. Bluetooth software will start searching for other Bluetooth devices. Double click '**Bluetooth Modem**' icon.

🕺 My Bluetooth Places\Entire Bluetooth Neighborhood 📃 🔲 🗙				
<u> </u>	F <u>a</u> vorites <u>T</u> ools	Help		
← Back → → 🖂 🔍 Sea	rch 🛅 Folders 🤅	③History 🐰 💙		
Address 👰 My Bluetooth Places\E	intire Bluetooth Neig	Jhborhood 🔽 🔗 Go		
Entire Bluetooth Neighborhood	Bluetooth Modem			
This folder displays the Bluetooth devices in the neighborhood. To find other devices in the area or to refresh the list of devices, <u>click here.</u> To cancel the search for devices, press ESC.				
The search for devices has finished				

3. The service discovery starts.



4. Windows will ask you a 4-digit PIN Code to pair with the Bluetooth Modem. You can find the PIN Code on the bottom of your bluetooth modem.



5. Enter the PIN Code and click "OK".



6. When Bluetooth Modem has been paired, it will show 3 services. Double click "**Dial-up Networking on Bluetooth Modem**" icon.



7. When the connection is established, the service icon will turn to green.



8. The **"Connect To"** window will appear. Please key in the user name, the password, and the phone number. You can get the information form your ISP (Internet Service Provider) and then click the **"Connect"** button.

Connect Blueto	othConnection
<u>U</u> ser name:	User name
<u>P</u> assword:	******
	Save password
Djal:	12345678
<u>D</u> ial	Cancel Properties <u>H</u> elp

9. The Bluetooth Modem starts dialing.

Connecting BluetoothConnection			
بول ان د	Dialing 12345678		
	Cancel		

10. When connected, you are able to use internet for example..

For Windows XP

1. Double click **"My Bluetooth Places**" icon on the desktop. Click **"View devices in range**".

🖇 My Bluetooth Places	
<u>File E</u> dit <u>V</u> iew <u>B</u> luetooth F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	R
G Back 🔹 🕤 🚽 🏂 🔎 Search 🎼 Folders 🛛 🎹 🔹	
Address 🚯 My Bluetooth Places	🖌 🔁 Go
Bluetooth Tasks	
 Bluetooth Setup Wizard View My Bluetooth services View devices in range View or modify configuration 	
Other Places	
Other Places X Image: Desktop Image: Desktop Image: My Computer Image: Desktop Image: Desktop Image: Desktop </td <td></td>	
Details	
My Bluetooth Places System Folder	

2. Bluetooth software will start searching for other Bluetooth devices. Find the **"Bluetooth Modem"** icon and then double click on it.

Wy Bluetooth Places\Entire Bluetooth Neighborhood	
<u> Eile E</u> dit <u>V</u> iew <u>B</u> luetooth F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	A
G Back 🔹 🕥 - 🝺 🔎 Search 🎼 Folders 🛛 🏢 🝷	
Address 🧶 My Bluetooth Places\Entire Bluetooth Neighborhood	💌 🄁 Go
Bluetooth Tasks	
 View My Bluetooth services Search for devices in range View or modify configuration 	
Other Places	
Desktop My Computer Bluetooth Exchange Folder	
My Bluetooth Places My Network Places Printers and Faxes	
Details 🛠	
Bluetooth Devices	

3. The service discovery starts.

S My Bluetooth Places\Entire Blu	etooth Neighborh	ood\Bluetooth Modem	
<u>File E</u> dit <u>V</u> iew <u>B</u> luetooth F <u>a</u> vorit	es <u>T</u> ools <u>H</u> elp		A.
🚱 Back 🝷 🕥 🕤 🏂 🔎 Se	arch 😥 Folders	•	
Address 🄄 My Bluetooth Places\Entire Bl	luetooth Neighborhood	d\Bluetooth Modem	💙 🄁 Go
Bluetooth Tasks			
Discover services	Discovering Available		
Other Places 🛞			
🕑 Desktop			
My Computer			
Bluetooth Exchange Folder My Bluetooth Places			
Printers and Faxes			
Details 🔅			
Bluetooth Modem Modem			

4. Windows will ask you a 4-digit PIN Code to pair with the Bluetooth Modem. You can find the PIN Code on the bottom of your Bluetooth modem.



5. Enter the PIN Code and click "OK".



6. When Bluetooth Modem has been paired, it will show 3 services. Double click "Dial-up Networking on Bluetooth Modem" icon.



7. When the connection is established, the service icon will turn to green.



8. The **"Connect BluetoothConnection"** window will appear. Please enter your 'User name', 'Password' and 'Phone number'. This information is provided by your ISP (Internet Service Provider). Click **"Dial**".

Connect Bluet	aothConnection 🔹 💽
<u>U</u> ser name:	User name
Password:	NNNREEE
● Me o <u>n</u> ly ● Me o <u>n</u> ly ● <u>A</u> nyone v	er name and password for the following users: who uses this computer
Djal:	12345678
<u>D</u> ial	Cancel Properties Help

9. The Bluetooth Modem starts dialing.



10. When connected, you are able to use internet for example.

5. Generic Modem Mode

5.1 Getting Started

- 1. Turn the switch to "RS-232" side
- 2. Connect the telephone line to the RJ-11 socket

3. Plug in the RS-232 cable male connector to RS-232 connector of Bluetooth Modem and plug in the female connector to your PC.

4. Plug in the AC adapter to the power outlet.

5.2 Driver Installation under Windows

For Windows 98

1. Make sure your PC is powered on and Windows is running. Windows will recognize the device and displays the "Add New Hardware Wizard" dialog box. Please insert the driver CD and click "Next".



2. Select "Search for the best driver for your device (Recommended)", click "Next".



3. Select "**Specify a location**" and type "**E:\Driver**" (where E:\ is the drive letter of your CD-ROM drive) in specify the location or you can click "**Browse**" to select the right location, click "**Next**".

Add New Hardware Wiz	rard
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
	< Back Next> Cancel

4. Click "**Next**", the driver will be installed automatically.



5. Click the "Finish" button to complete the installation process.

Add New Hardware Wiz	ard
	Bluetooth 56K Wireless Modem
	Windows has finished installing the software that your new hardware device requires.
8.3	
	< <u>Back</u> Finish Cancel

For Windows ME

1. Make sure your PC is powered on and that you are running the Windows operating system. Then system will recognize the device and display the "Add New Hardware Wizard" dialog box. Please insert the driver CD and then click the "Next" button.

Add New Hardware Wizard	
	Windows has found the following new hardware: Analog Modem Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next. What would you like to do? Automatic search for a better driver (Recommended) Specify the location of the driver (Advanced)
	< <u>B</u> ack Next > Cancel

2. Select "**Specify a location**" and type "**E:\Driver**" (where E:\ is the drive letter of your CD-ROM drive) in specify the location or you can click "**Browse**" to select the right location, click "**Next**".

Add New Hardware Wiz	zard
	 Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected Search for the best driver for your device. (Recommended). Removable Media (Floppy, CD-ROM) ✓ Specify a location: E:\DRIVER Browse Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack

3. Click "**Next**", the driver will be installed automatically.



4. Click "Finish" to complete the installation.

Add New Hardware Wiz	eard and a second s
	Bluetooth 56K Wireless Modem Windows has finished installing the new hardware device.
	< Back Finish Cancel

For Windows 2000

1. Make sure your PC is powered on and that you are running the Windows operating system. Then system will recognize the device and display the "Found New Hardware Wizard" dialog box. Please insert the driver CD-ROM and click "Next".



2. Select "Install the software automatically (Recommended)", click "Next".

Found New Hardware Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device: Analog Modem A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< <u>B</u> ack <u>N</u> ext > Cancel

3. Select "Specify a location" then click the "Next" button.

Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Analog Modem
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy <u>d</u> isk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< <u>B</u> ack <u>N</u> ext > Cancel

4. Type **"E:\Driver**" (where E:\ is the driver letter of your CD-ROM drive) in the location or you can click the **"Browse**" button to select, then click the **"Next**" button.

Found Net	w Hardware Wizard	×
	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK Cancel
	<u>C</u> opy manufacturer's files from: E:\DRIVER	<u>B</u> rowse

5. Click "Next", the driver will be installed automatically.



6. Windows will search and find the driver of the device. Please click "**Yes**". Windows will continue the installation.



7. Click "Finish" to complete the installation.



For Windows XP

1. Make sure your PC is powered on Windows is running. Windows will recognize the device and display the "Found New Hardware Wizard" dialog box. Select "Install from a list or specific location (Advanced)", insert the driver CD-ROM, click "Next".



2. Select "Search for the best driver in these locations." and choose "Include this location in the search:" then type "D:\Driver" (where D:\ is the drive letter of your CD-ROM drive) or you can click "Browse" to select the location. Click "Next".

Found New Hardware Wizard
Please choose your search and installation options.
● Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable <u>m</u> edia (floppy, CD-ROM)
✓ Include this location in the search:
D:\DRIVER Browse
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< <u>B</u> ack <u>N</u> ext > Cancel

3. Click **"Continue Anyway"**. Windows will automatically copy the driver files and related files into the system.

Hardwa	re Installation
1	The software you are installing for this hardware: Bluetooth 56K Wireless 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 STOP Installation

4. Click "Finish" to complete the installation.



5.3 How to dial-up under Windows

Please refer to the Windows Operating System user guide to setup a dial-up connection.