

Bluetooth™ Module

Caution: This user guide information is only provided to OEM or module installer.

Do not supply to end user.

Connect Your Peripherals and Computing Devices without Cables

Model no. PBT8461022

(1).Introduction

The PBT8461022 with Bluetooth™ Wireless Technology is a Radio device that transmits And receives radio signals in accordance with the spectrum regulations for the 2.4GHz Unlicensed frequency range. The following table shows a major function.

1-1

Standard: Bluetooth V2.0

Frequency Band: 2.402GHz~2.480GHz unlicensed ISM band

Spread Spectrum: FHSS (Frequency Hopping Spread Spectrum)

Modulation Method: GFSK (Gaussian Frequency Shift Keying)

RF Output Power: Class II, >0dBm

Antenna: External Antenna

Working Distance: Max, 20min free space

Sensitivity: <0.1% BER at-80dBm

Power Consumption: TX Typical: 40mA

I/O Interface: RX Typical: 300mA

Chip Set: CSR BC04

Voltage Range: 3.3V+- 0.3V

Supported Bluetooth Profiles (option): SPP, HID, Headset, Headsfree

Application: GPS, Remote, Control

1-2 PC System Requirements

·PC-compatible computer, CPU speed of 200MHz or above

·Memory: 64MB or above, 128MB recommended

·One available USB port, USB 1.1 standard

·Windows®98 SE,Me,2000, and XP

1-3 Product Contents

·Bluetooth USB Adapter

·CD-ROM for installation software and documentation

·Quick Installation Guide

(2).Radio Part

Bluetooth™ Transceiver Module, model has fully integrated 2.4GHz radio transceiver With Class2 power, receiver and frequency-hopping synthesizer

(3).Base band Part

Bluetooth™ Transceiver Module contains link controller, which performs all the real-time Functions of the Bluetooth™ base band protocol layer, including data transfer and connection management. The device also controls states of operation enables sniff, park and hold modes of operation. Real-time functions such as frequency-hopping burst timing and clock synchronization are also implemented in this hardware. Further Processing is required to format the data into the Bluetooth™ packet format before it may be applied to the GFSK modulator. On the receive side the controller performs error correction and de-scrambling before de-packetizing the incoming payload and storing it in RX buffers.

Step1.: Software Setup

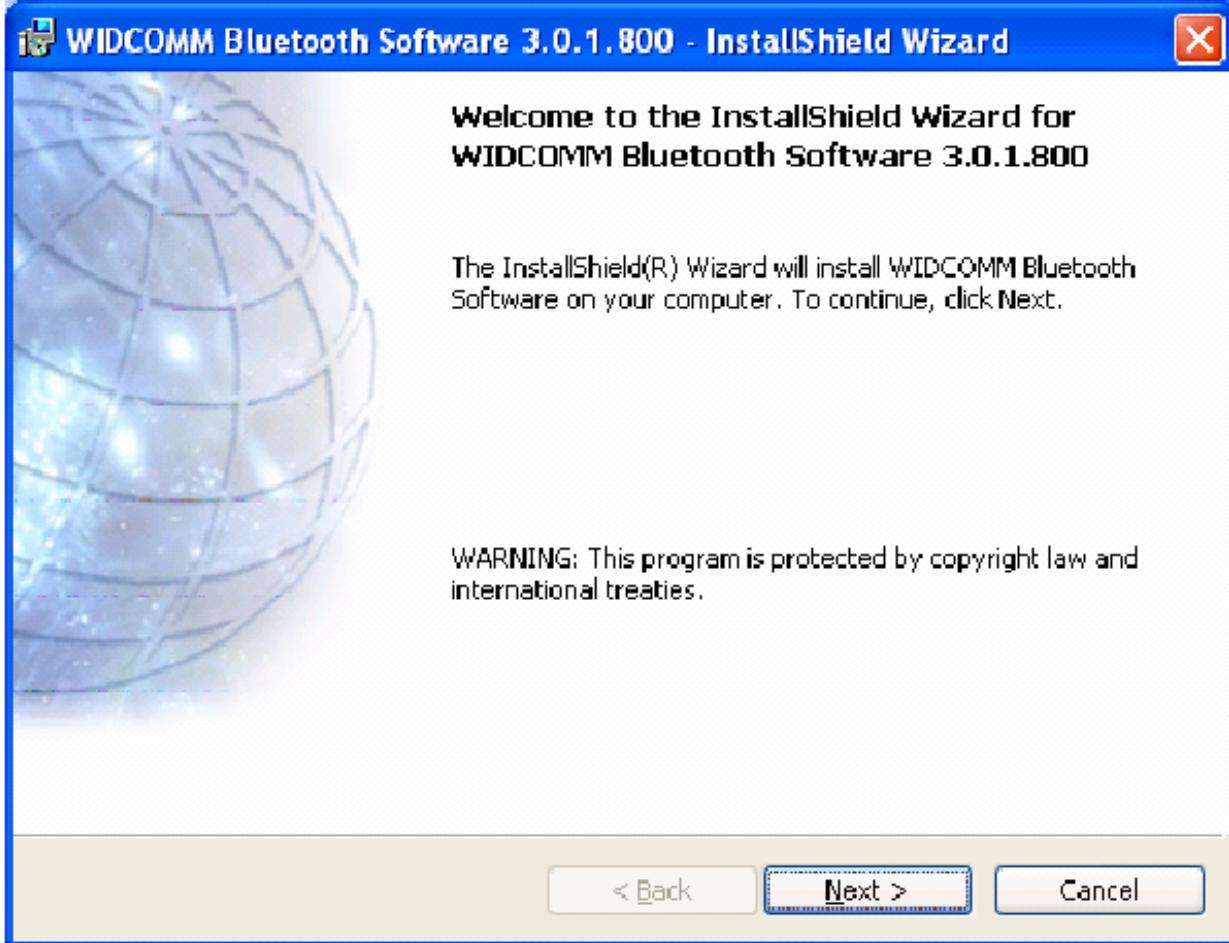
Software Setup for Windows 98 SE, Me, 2000, and XP

To install the software for the USB Adapter , follow the instructions below:

Note: the installation Process for windows XP may look slightly different from windows 98 SE, Me, and 2000

Note: DO not insert the USB Adapter into the USB port prior to software installation

1. Insert the software installation CD-ROM into the PC's CD-ROM drive
2. The “Software Installshield Wizard” Windows appears. Click on “Next” to begin the Installation Process.



Step 1: Software Setup

3. Choose "I accept the terms in the license agreement" to accept the license agreement. Click on "Next" to continue.

WIDCOMM Bluetooth Software 3.0.1.800 - InstallShield Wizard



License Agreement

Please read the following license agreement carefully.



WIDCOMM, INC. ("WIDCOMM") IS WILLING TO LICENSE THE WIDCOMM SOFTWARE ACCOMPANYING THIS LICENSE AGREEMENT (THE "SOFTWARE") TO YOU ONLY ON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS IN THIS AGREEMENT. PLEASE READ THE TERMS CAREFULLY. BY CLICKING ON THE "I ACCEPT THE TERMS OF THIS LICENSE AGREEMENT" BUTTON YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT AND AGREE TO BE

I accept the terms in the license agreement
 I do not accept the terms in the license agreement

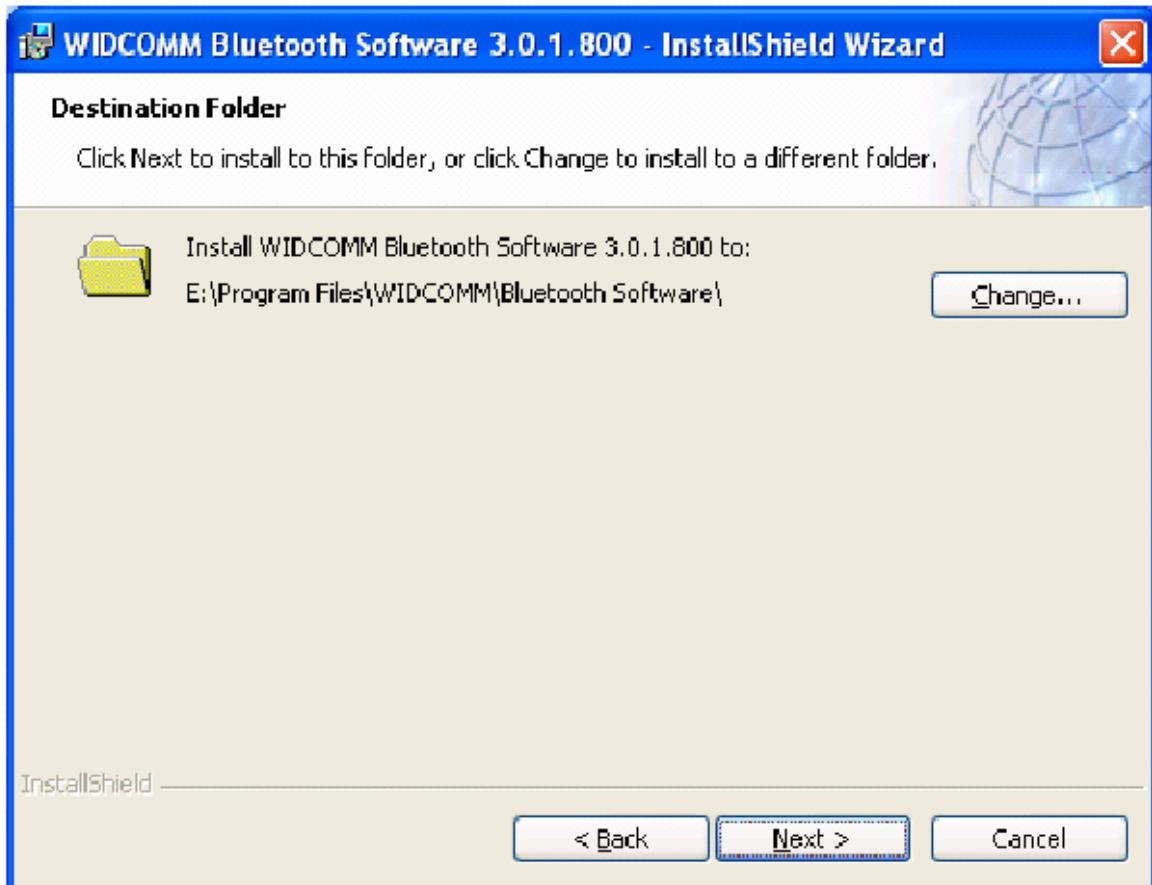
InstallShield

< Back

Next >

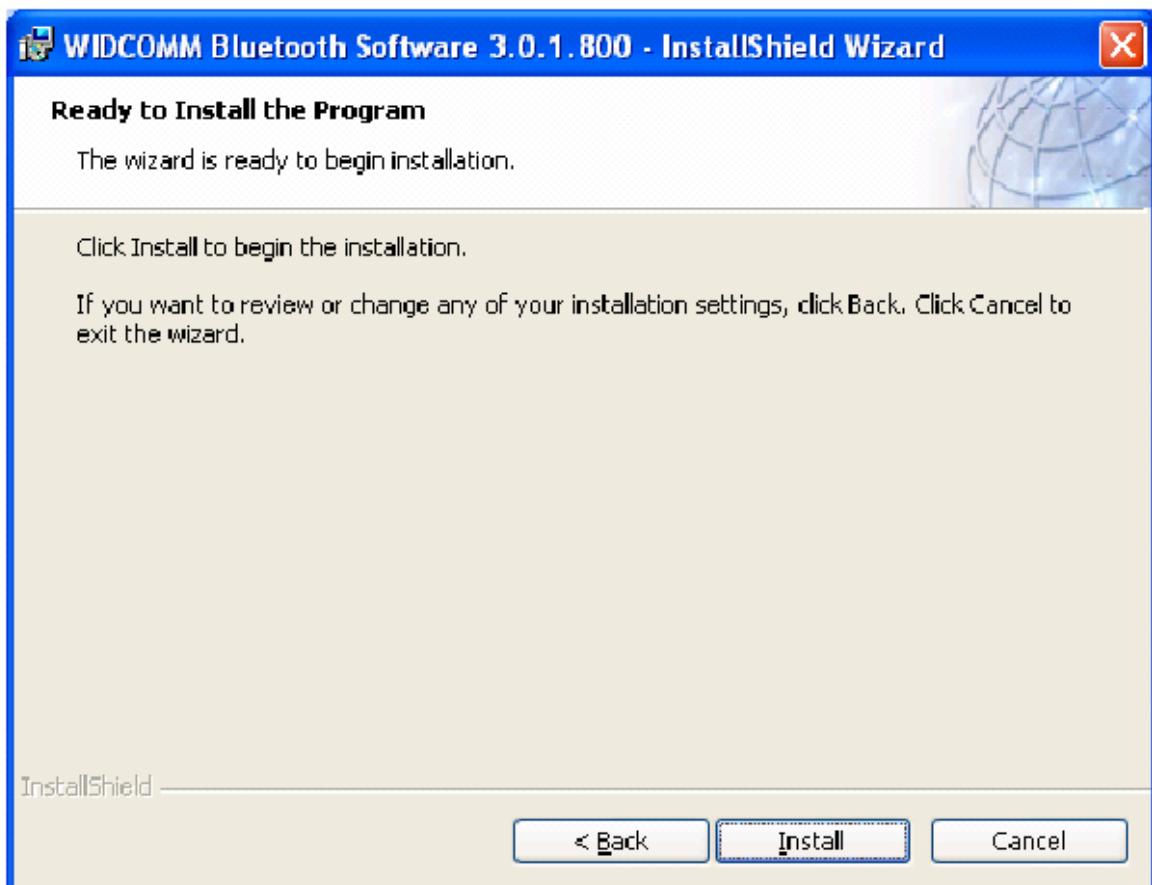
Cancel

4. Specify the location where the software files will be installed on your hard drive. It is recommended that you install the software in the default directory "C:\Program Files\WIDCOMM\Bluetooth Software\". Click on "Next" to continue.

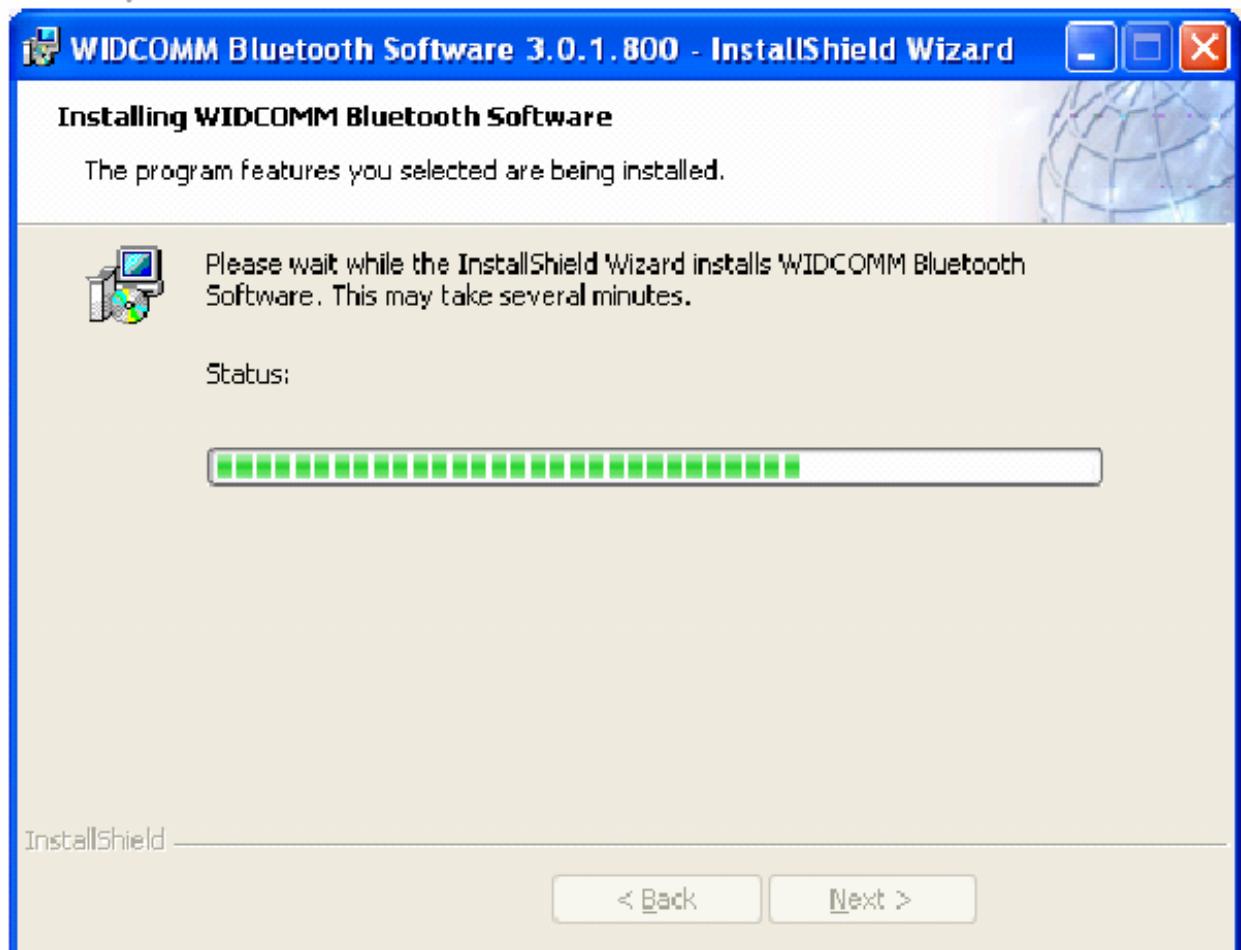


3

5. Confirm that the device software is ready to be installed and click on "Install".



6. The InstallShield Wizard will begin to install the *Bluetooth* Software. This may take several minutes.



4

Step 1: Software Setup

7. During the installation process you may be prompted to insert your USB Adapter. If your USB Adapter is not plugged into your computer at this time, you may insert it into an available USB 1.1-compliant port on your desktop or notebook computer, then click "OK" to continue. Click on "Cancel" to continue installation without the *Bluetooth* device inserted. Refer to the "Hardware Installation" section of this User Manual for instructions for installing the hardware.

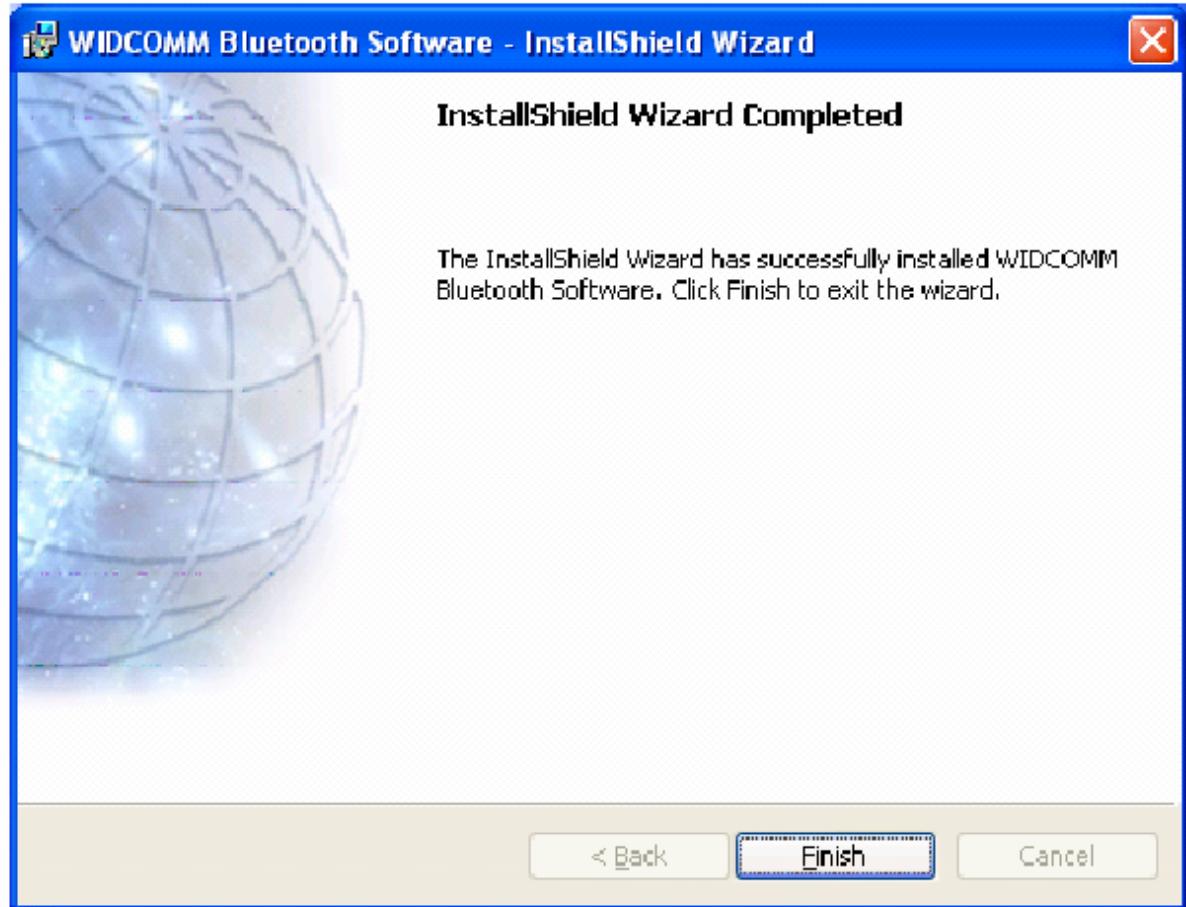


Note: If at any time during the installation process you receive a “Driver Signature Notice”, click “OK” to continue the installation process.

5

Step 1: Software Setup

8. Confirm the completion of the software installation; click “Finish” and restart the system if prompted to do so.



6

Step 1: Software Setup

Hardware Setup for Windows 98 SE, Me, 2000, and XP

Follow these instructions to install your USB Adapter on your PC.

Note: Your USB Adapter is sensitive to static electricity, which can damage its delicate electrical components. To protect your device, always touch the metal chassis of your computer before handling the USB Adapter. This will ground any potential electrostatic discharge. Avoid touching the metal connector when handling the USB Adapter. Dry weather conditions or walking across carpeted floors may cause you to acquire an electrostatic charge.

1. Connect the USB Adapter directly to an

available USB A-type connector on your desktop or notebook computer. Your system should register a new USB device found.

2. Choose “Install from a list or specific location” ; then click “Next” .



Step 2: Hardware Setup

7

3. Browse for the location of the device driver “:\Program Files\WIDCOMM\Bluetooth\Software\bin\” then 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 media (floppy, CD-ROM...)

Include this location in the search:

C:\Program Files\WIDCOMM\Bluetooth Software\vir

[Browse](#)

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.

[< Back](#)

[Next >](#)

[Cancel](#)

4. If you receive the following “Hardware installation notice”, click on “Continue Anyway” to continue with the installation process.

Software Installation



The software you are installing 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 software vendor for software that has passed Windows Logo testing.

[Continue Anyway](#)

[STOP Installation](#)

Step 2: Hardware Setup

5. A window will appear that confirms the completion of the hardware installation; click on “Finish” to complete the installation process.



Step 2: Hardware Setup

9

Uninstalling the Software for Windows 98 SE, Me, 2000, and XP

Follow these instructions to uninstall your USB Adapter on your PC.

1. Insert the CD-ROM included with your USB Adapter.
2. This “InstallShield Wizard” should automatically load. If it does not load, explore the CD and run the “Setup.exe” file.
3. The “InstallShield” window should now appear. Click “Next” to continue with the uninstall process.

10

Federal Communication Commission Interference Statement

This 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 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 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.

FCC Caution :To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

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.

End Product Labeling:

The final end product must be labeled in visible area with the following:

Contains TX FCC ID: V93PBT8461022