

Atheros

AR5BBU12

Bluetooth v2.1+EDR USB module

March 2009



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Document Conventions

Text Conventions

bold Bold type within paragraph text indicates commands, file names, directory names, paths, output, or returned values.

Example: The DK_Client package will not function unless you use the **wdreg_install** batch file.

italic Within commands, italics indicate a variable that the user must specify.

Example: **mem_alloc size_in_bytes**

Titles of manuals or other published documents are also set in italics.

Courier The Courier font indicates output or display.

Example:

Menu `Error:Unable to allocate memory for transfer!`
The Menu character tag is used for menu items.

Example: Choose Edit > Copy.

[] Within commands, items enclosed in square brackets are optional parameters or values that the user can choose to specify or omit.

{ } Within commands, items enclosed in braces are options from which the user must choose.

| Within commands, the vertical bar separates options.

... An ellipsis indicates a repetition of the preceding parameter.

> The right angle bracket separates successive menu selections.

Example: Start > Programs > DK > wdreg_install.

Notices

NOTE: This message denotes neutral or positive information that calls out important points to the text. A note provides information that may apply only in special cases.

Revision History

Revision	Description of Changes
March 2009	Initial Release



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Taiwan DGT Radio Compliance:.....	錯誤! 尚未定義書籤。
2.4GHz Operation	錯誤! 尚未定義書籤。

Introduction

The Atheros Bluetooth Adapter Bluetooth EDR2.0 operation. The card uses the Atheros Client Utility (ACU) which is a user-mode utility designed to edit and add profiles for selected Atheros network interface adapters.

Installation and Operation

Getting Started

This chapter describes how to install, uninstall, launch, and use the Bluetooth Suite. The following major topics are covered in this chapter:

- ◆ "Installing the Bluetooth Suite"
- ◆ "Launching the Bluetooth Suite"
- ◆ "Introduction to the Bluetooth Suite"
- ◆ "Uninstalling the Bluetooth Suite"

Installing the Bluetooth Suite

You either received a password from Atheros to download the Bluetooth Suite software from the Atheros web site or received the Bluetooth Suite on a CD.

NOTE: If you are installing Bluetooth Suite on a machine that already has an existing Bluetooth Suite, you need not uninstall it because Bluetooth Suite supports the upgrade feature. If you need to uninstall Bluetooth Suite, refer to "Uninstalling the Bluetooth Suite" on page 2-10 on how to uninstall Bluetooth Suite.

Software installation is a three-step process and it is important to perform these steps before you can use the Bluetooth Suite:

1. Installing the Bluetooth Suite
2. Installing the radio (profile) drivers
3. Updating the drivers

All these steps are explained in the installation process.

Downloading the Bluetooth Suite

1. Go to the Atheros Support web site: <https://support.atheros.com/>
2. Login to the web site using your user name and password provided by Atheros Support.



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3. Go to the **AR3011 Software Package & Documentation** tab of the Atheros web site.
4. Download the appropriate Bluetooth Suite release, extract the files, and save them on your system.
2. Install the Bluetooth Suite by double-clicking on the Bluetooth Suite **setup.exe** file.
- 3.

Follow the rest of the installation procedure described in "[Copying Bluetooth Suite from the CD](#)" on page 2-2.

Copying Bluetooth Suite from the CD

1. Insert the CD containing the Bluetooth Suite into the CD drive.
2. Double Click on the Bluetooth Suite **setup.exe** file.

The InstallShield Wizard starts to prepare the package for installation. The **Welcome to InstallShield Wizard for Bluetooth Suite** screen (see [Figure 2-1](#)) is displayed.

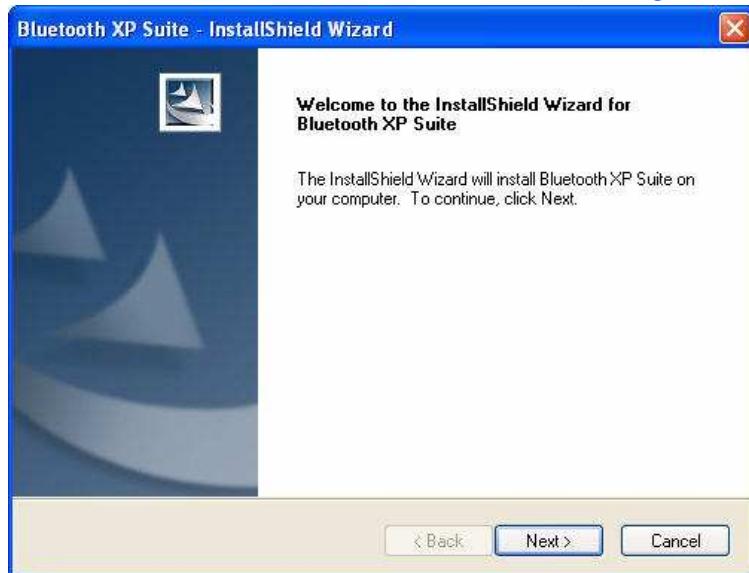


Figure 2-1. Bluetooth Suite - Welcome Screen

3. Click Next.
You will see the **Customer Information** screen. See [Figure 2-2](#).



Figure 2-2. Bluetooth Suite Customer Information Screen

4. Enter the user name and company name and choose the intended user of this application - **“Anyone who uses this computer (all users)”** or **“Only for me”** and click **Next**.

You will see Choose Destination Location screen. See [Figure 2-3](#).



Figure 2-3. Bluetooth Suite Choose Destination Location



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5. The default destination location is already selected. Click Change to browse to a different destination.
6. Click **Next**.
You will see **Start Copying Files** screen that displays the current settings including user information, setup type, and destination directory. This allows you to review and modify the setup information. See [Figure 2-4](#).



Figure 2-4. Bluetooth Suite - Start Copying Screen

7. Click **Next**. The Bluetooth Suite begins to configure and copy the new software. It also removes any backup files. When the Bluetooth Suite installation is complete, you will see the Finish screen. See [Figure 2-5](#).

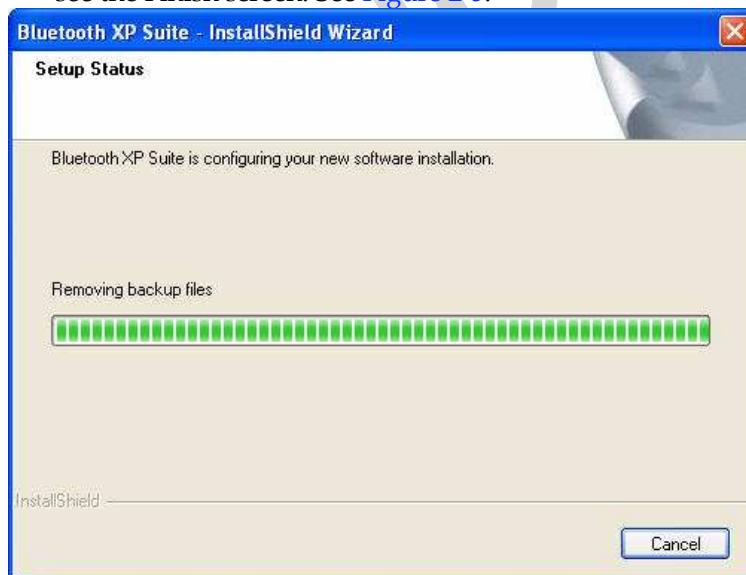


Figure 2-5. Bluetooth Suite - Installation Setup Status

4. When prompted to restart your computer, select **Yes, I want to restart my computer now** option and click **Finish**.



Figure 2-6. Bluetooth Suite - Finishing the Installation

The installation is complete. This process creates a 'Launch Bluetooth Suite' shortcut on your desktop. Now you are ready to run Bluetooth Suite.

Launching the Bluetooth Suite

1. Insert the Bluetooth Suite USB device into the USB port of your system.

NOTE: You can insert the Bluetooth Suite USB device in any USB port. You might see **Found New Hardware** message.

2. Double click on the **Bluetooth Suite** icon on your desktop or choose **start > All Programs > Bluetooth Suite > Launch Bluetooth Suite**.

It displays the blank Atheros Bluetooth Suite screen.

NOTE: If no Bluetooth devices are found within range, it is normal for new installation. Bluetooth Suite screen does not display such devices when launched for the first time. You need to click on the Discovery button the top left panel of the window to see all the Bluetooth devices in range. See [Figure 2-7](#).



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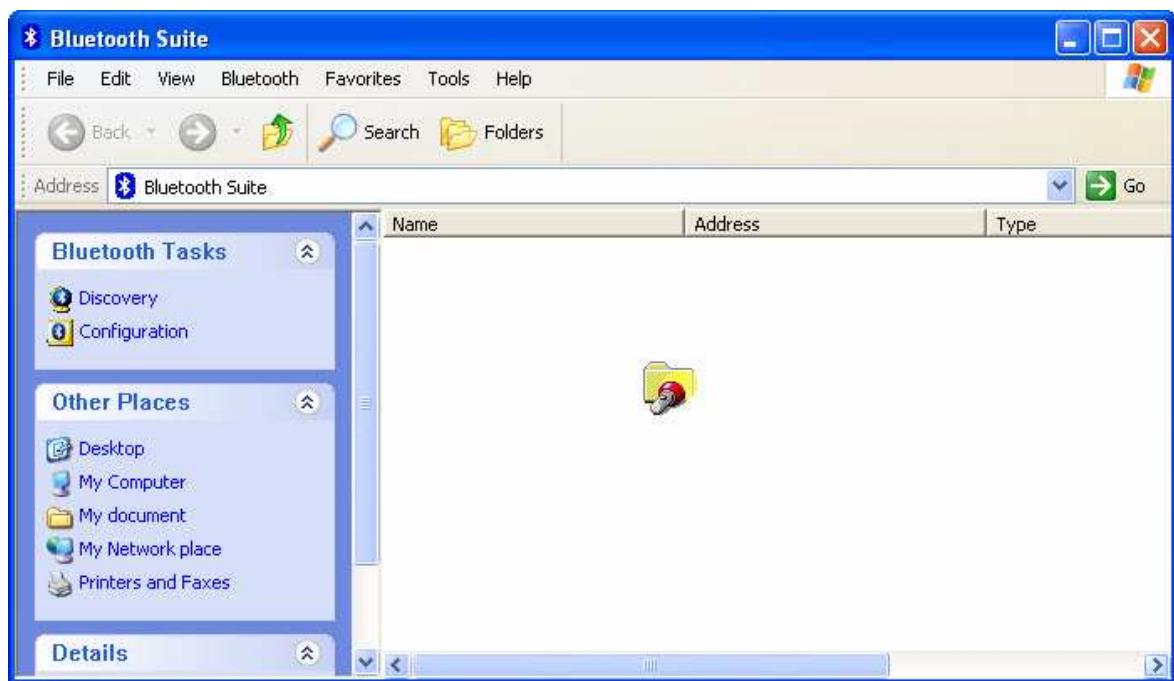


Figure 2-7. Bluetooth Suite Startup Screen During Discovery

When the Bluetooth Suite finds devices in range, it displays them. See [Figure 2-8](#).

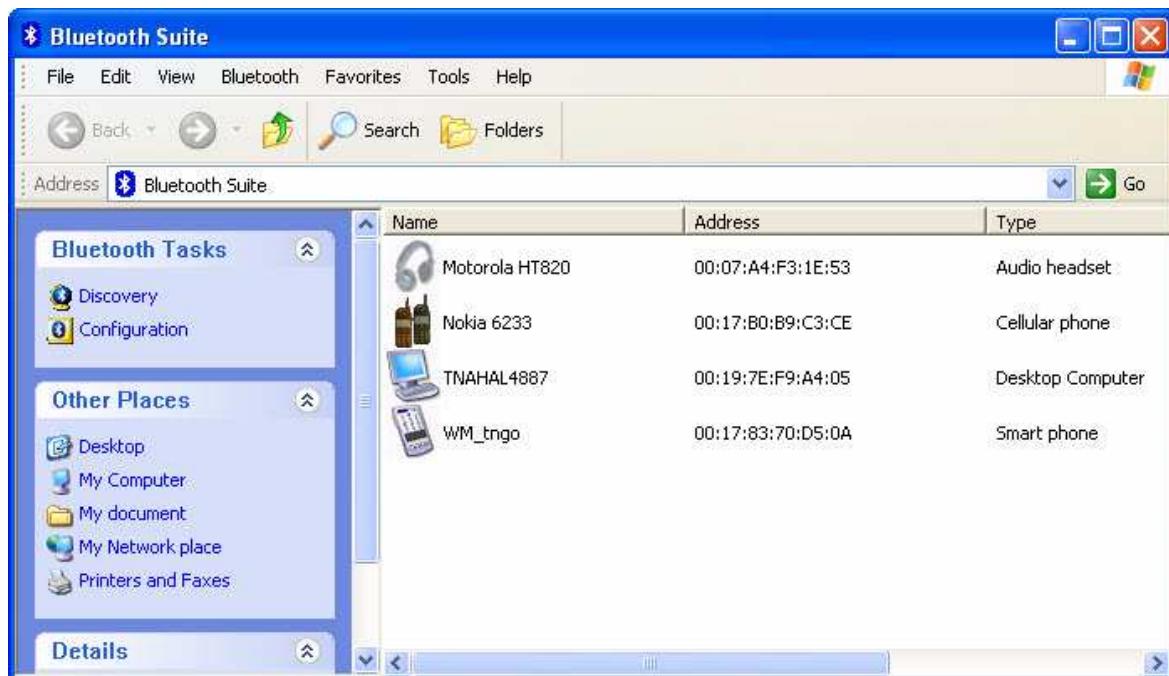


Figure 2-8. Discovered Bluetooth Devices

NOTE: Trusted remote devices will show Paired status in Device list, and Connected remote devices will show Connected status in Device list. Other devices will display Inrange status.

Introduction to the Bluetooth Suite

Now that you have successfully launched the Bluetooth Suite, spend few minutes in getting to know your Bluetooth Suite. The following few pages explain various features and components associated with the Bluetooth Suite GUI.

The **My Bluetooth Suite** is the main screen that consists of three major parts:

- Menu bar
- Bluetooth Tasks area
- Bluetooth devices along with their IP addresses and types are displayed on the right panel.

In addition, there is a Bluetooth Suite Tray which allows you to launch the Bluetooth Suite.



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Menu Bar

Bluetooth menu is the primary menu on the **Bluetooth Suite** screen. The options associated with this menu are:

- Search for Device
- Bluetooth Configuration
- Bluetooth Help Topics
- Bluetooth Exchange Folder
- About Bluetooth

NOTE: Some of these functions are available from the Bluetooth Suite Tray.

These options are described below in detail.

Search For Device

Clicking this button begins to search for remote Bluetooth devices in range. Found devices will display in right panel.

Bluetooth Configuration

Clicking on the Configuration menu option displays the Bluetooth Suite Configuration screen which allows you to specify Bluetooth Suite tasks and settings associated with Bluetooth device recovery and device filters. This function is also available through the toolbar. Nine configuration screens are associated with Bluetooth Suite. Those screens are:

- Bluetooth Suite Settings
- Local Device
- Bluetooth Security
- Profile Manager
- Shared Folders
- Object Push
- Audio
- Basic Imaging
- Personal Area Networking
- Fax Server Configuration
- Sync

These options are described in detail in [Chapter 3](#).

Bluetooth Help Topics

Click this button to display any help topics.

Bluetooth Exchange Folder

Clicking this button to display the content of Bluetooth exchange folder. From Bluetooth Suite window, choose **Bluetooth->Bluetooth Exchange Folder** to access Exchange share folder for Object Push feature.

Bluetooth Places Panel

When you launch the Bluetooth Suite, various Bluetooth devices in the Bluetooth neighborhood are listed on the right panel. These typically consist of audio devices, computers (both laptop and desktop), phones, peripheral devices such as Fax, printer, mouse, headset, and imaging devices. If any of these devices are discovered, they are listed on the right window panel. For example, if a Bluetooth mouse is discovered in the Bluetooth neighborhood, it is shown as peripheral pointing device, its brand name, address, and service status (in range, paired, connected or disconnected). You can select a device and right mouse click button to select the following:

- ◆ Name discovery
- ◆ Delete
- ◆ Pair
- ◆ Service Discovery
- ◆ Properties

See [Figure 2-9](#) for details.

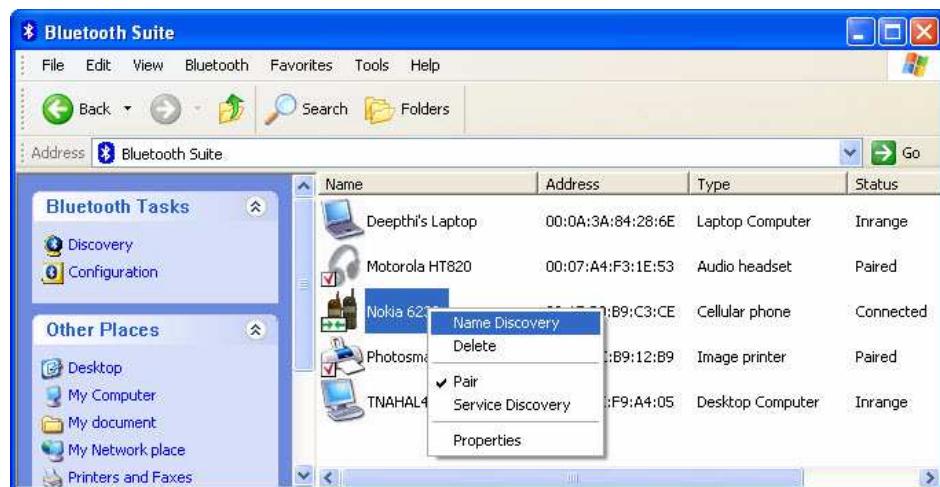


Figure 2-9. Bluetooth Places Device Options



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Uninstalling the Bluetooth Suite

Anytime you install a new version of Bluetooth Suite, you need to uninstall any existing version of the Bluetooth Suite. Follow this procedure to uninstall the Bluetooth Suite.

1. Make sure the Bluetooth dongle is removed from any system USB port.
2. Choose **start > All Programs > Bluetooth Suite > Uninstall Bluetooth Suite.**

The system prepares for uninstallation. A screen is briefly displayed that shows that it is ready to uninstall the program. You will see another screen that prompts you to completely remove the application and all of its features. See [Figure 2-10](#).



Figure 2-10. Bluetooth Suite Uninstallation Prompt

3. Click **Yes**.

You will see a Setup Status screen showing that application is being removed followed by another screen showing Uninstall Complete. See [Figure 2-11](#).



Figure 2-11. Finishing Bluetooth Suite Uninstallation

4. Click **Yes, I want to restart my computer now.**
5. Click **Finish**.

The uninstall is complete. You are ready to reinstall the Bluetooth Suite.



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Connecting to an HID Device

This chapter describes how to connect the Bluetooth laptop to a Bluetooth HID (Human Interface Device) such as a mouse.

Setup Requirements

You need the following devices and equipment in order to accomplish this task:

- A PC system running Windows with Bluetooth Suite
- Atheros Bluetooth USB Adapter (dongle)
- Bluetooth mouse with batteries or keyboard

Launching the Bluetooth Suite

1. Double click on the **Launch Bluetooth Suite** icon on your desktop or launch it from **start > All Programs > Bluetooth Suite > Launch Bluetooth Suite**. It displays the Bluetooth Suite start-up screen. See [Figure 4-1](#).
2. Put your mouse in searchable (pairing mode) by doing the following:
 - a. Turn On the mouse by pressing down its power On/Off button. Refer to the mouse documentation on how to do it.
 - b. Press the connect button on the mouse to put it in pairing (discoverable) mode. Refer to the mouse documentation for additional information.
3. Right mouse click on the **Bluetooth Suite Tray**, and choose **My Bluetooth Place** option.

It displays all the peripheral devices in the right panel of the screen indicating that these devices are in range and available to be connected. It also shows the device name, address, type and status (in range, paired, or connected).

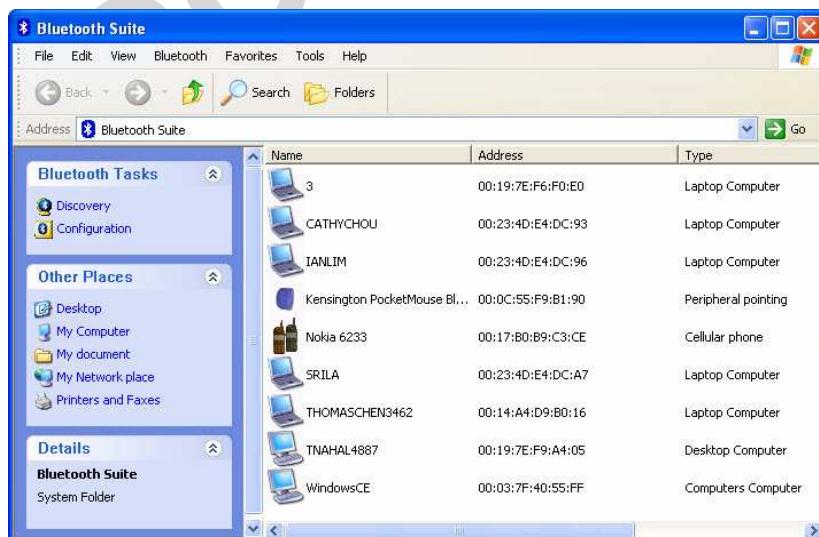


Figure 4-1. Bluetooth Places Screen

4. Make sure the device that you wish to pair or connect is powered up and in discoverable mode. If it is in range and has previously been paired, turning on the device will automatically pair it.
5. Right click on the mouse and choose **Pair**. It displays the Bluetooth Pairing Passcode screen. See [Figure 4-2](#).



Figure 4-2. Entering Bluetooth Pairing Passcode

6. Enter a passcode to pair with the remote device and click **OK**.

NOTE: The default code shown is 0000. Refer to the documentation of your mouse to find out the passcode of your device and how to change it.

7. Highlight the mouse device under Peripheral Devices in the left panel and choose **Service Discovery**. Highlight the device. Using your laptop pointing device, right click on the Human Interface Device service and choose the **Connect** option to connect to the mouse.



Figure 4-3. Connecting the Mouse



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8. Right click the **Connect** button.

DO NOT COPY

9. You will be prompted to make sure the device is in discoverable mode. Make sure the device is ON and in connectable mode. See [Figure 4-4](#).



[Figure 4-4. Putting Device in Connectable Mode](#)

10. Click **OK**.

You will notice that the Wizard begins to install software for the HID device. As soon as the installation is complete, the screen disappears.

Its service status of the HID changes from Disconnected to Connected. Your mouse is now connected and ready to use. You can perform normal mouse functions using this mouse.

Connecting to a Sync Device

This chapter describes how to connect a Bluetooth laptop to a Bluetooth device that supports Synchronization profile. The following topics are covered in this chapter:

- ◆ ["Setup Requirements"](#)
- ◆ ["Launching the Synchronization Process"](#)

Setup Requirements

You need the following devices and equipment in order to accomplish this task:

- ◆ A laptop system running Windows XP with Bluetooth Suite
- ◆ Bluetooth USB Adapter
- ◆ A Bluetooth device such as an e-mail tool and calendar that supports sync profile



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Launching the Synchronization Process

1. Launch the Bluetooth Suite.
2. Choose **My Bluetooth Place** from the Bluetooth tray on your desktop. It displays the **My Bluetooth Place** start-up screen.
3. Right mouse click the blank panel and choose **Device Discovery** option. See [Figure 10-1](#).

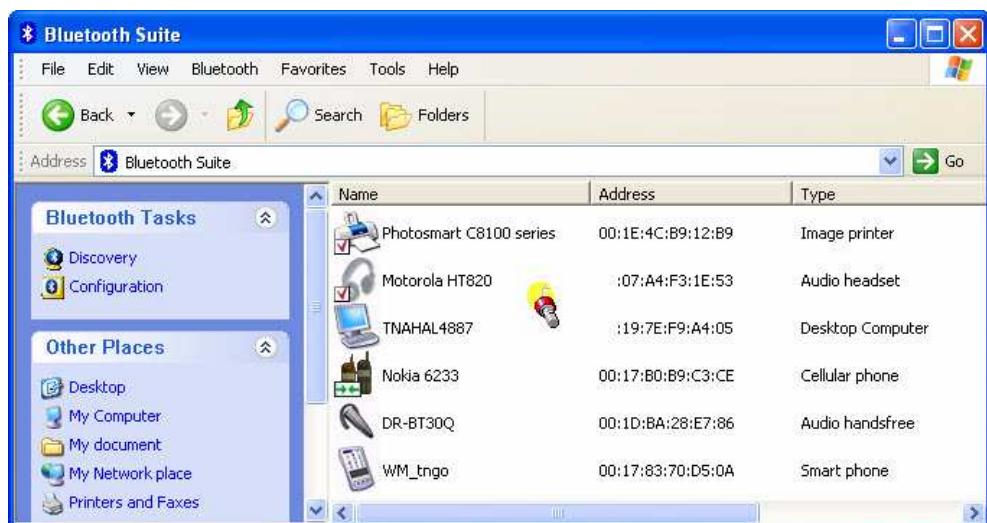


Figure 10-1. Bluetooth Suite Discovery Screen

4. Highlight the device that you wish to sync with and pair it. See [Figure 10-2](#).

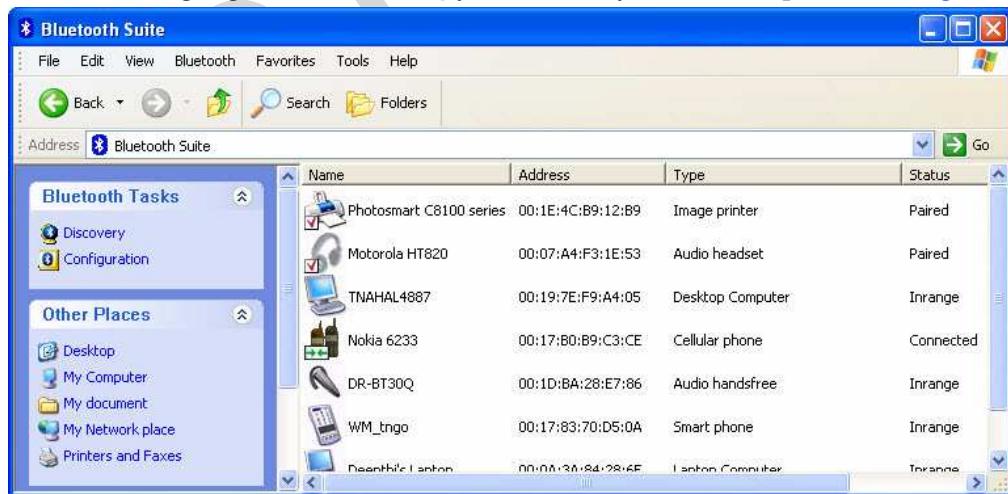


Figure 10-2. Pairing the Device for Syncing

5. Right mouse click on the desired bluetooth device and select the **Pair** option.

6. Enter the pairing code (0000) to pair it and click **OK**. See [Figure 10-3](#).



Figure 10-3. Bluetooth Devices Pairing

7. You will see the passcode prompt. Enter the passcode (default is 0000) for the selected device and click **OK**.

NOTE: The default code shown is 0000. Refer to the documentation of your device to find out the passcode of your device and how to change it.

8. Right click the **SYNC** icon on My Bluetooth Place under the specified device screen and choose **Synchronization** option. See [Figure 10-4](#).



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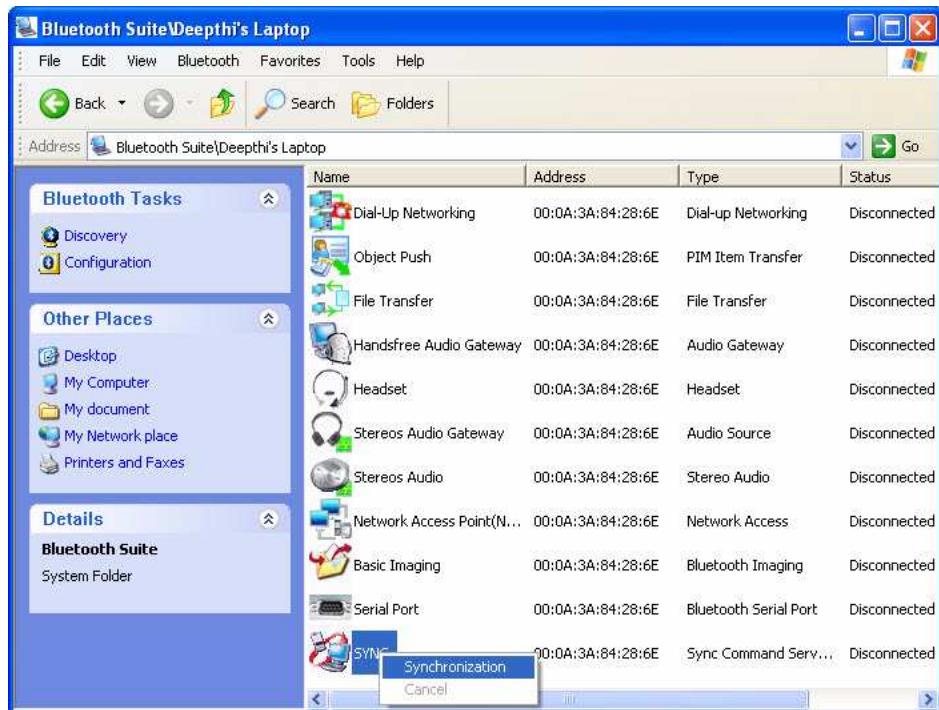


Figure 10-4. Bluetooth Synchronization

It displays the Sync screen which allows you to specify sync parameters for both client and server. See [Figure 10-5](#).

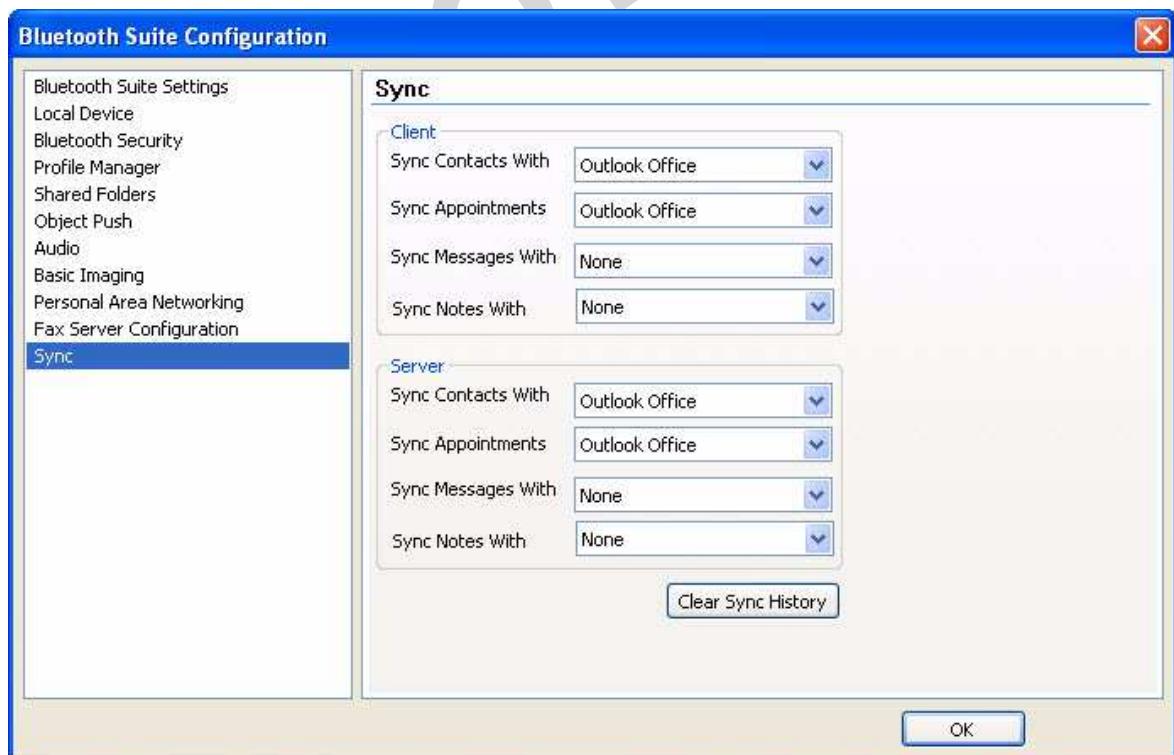


Figure 10-5. Selecting Items to Synchronize

9. Select the Sync items under the server and client that you wish to synchronize and click **OK**.

The selected items will be synchronized.



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Regulatory Compliance Notices

USA-Federal Communications Commission (FCC)

FCC Radio-Frequency Exposure & Approval Conditions:

FCC ID#: PPD-AR5BBU12

1. Antennas must be installed to provide 20 cm separation distance from the transmitting antenna to the body of user during normal operating condition. This device must not be co-located or operating in conjunction with any other antenna or transmitter.
2. Only those antennas filed under FCC ID:PPD-AR5BBU12 can be used with this device.
3. When the Minicard is installed in a system where the antenna location is less than 20 cm separation distance to the body of the user, additional equipment authorization is required.
4. The regulatory label on the final system must include the statement: "Contains FCC ID:PPD-AR5BBU12".
5. The final system integrator must ensure there is no instruction provided in the user manual or customer documentation indicating how to install or remove the transmitter module.
6. AR5BBU12 must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. This device complies with the following radio frequency and safety standards.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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. If not installed and used in accordance with the instructions, it 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 tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

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

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

IMPORTANT NOTE: In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling

The final end product must be labeled in a visible area with the following: "Contains FCC ID: PPD-AR5BBU12".

Manual Information To the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.

Canada – Industry Canada (IC)

This device complies with RSS 210 of Industry Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device."

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

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IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Antenna having a higher than approved gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

This device is intended only for OEM integrators under the following conditions:

The transmitter module may not be co-located with any other transmitter or antenna.

As long as condition above is met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE:

In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the IC authorization is no longer considered valid and the IC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate IC authorization.

End Product Labeling

The final end product must be labeled in a visible area with the following: "Contains IC : 4104A-AR5BBU12".

Manual Information That Must be Included

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove.

This RF module in the user's manual of the end product which integrates this module.

The user's manual for OEM Integrators must include the following information in a prominent location "IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements. The antenna must not be co-located or operating in conjunction with any other antenna or transmitter".

European Community — CE Notice:

The CE! mark indicates compliance with the essential requirements of Directive 1999/5/EC. Such marking is indicative that this equipment meets or exceeds the following technical standards:

- ◆ EN 300 328
- ◆ EN 301 489-17
- ◆ EN 60950

Marking by the symbol: ! indicates that usage restrictions apply in countries listed on this product's packaging.



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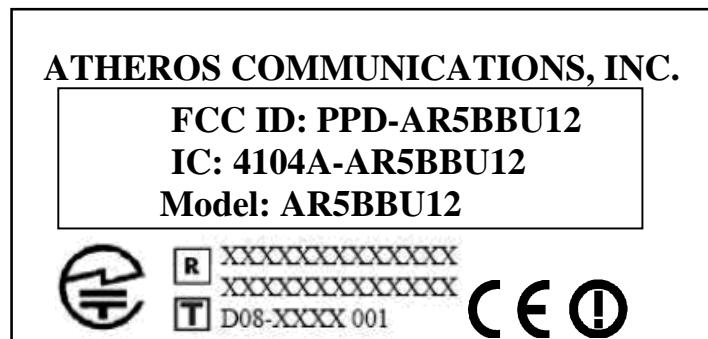
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Japan Telecom Certification - JATE

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PROPOSED FCC ID LABEL AND LOCATION



Printed Color : Black

地色 : White

材質 : 一般合成紙

粘著材 : 樹脂系糊

