DATALOGIC

PowerScan™ BT8300 Family

Industrial Handheld Bar Code Reader with Bluetooth® Wireless Technology

Initial Bluetooth® Connection Guide

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Patents

This product is covered by one or more of the following patents:

US Pat.: 6,512,218 B1; 6,808,114 B1; 6,877,664 B1; 6,997,385 B2; 7,053,954 B1; 7,102,116 B2; 7,282,688 B2; 7,387,246 B2.

European Pat.: 996,284 B1; 999,514 B1; 1,128,315 B1; 1,396,811 B1.

Additional patents pending.

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NOTES

Introduction

Overview

The PowerScan™ BT8300 reader can connect to a Bluetooth-enabled PC. This guide covers the basic steps of associating the reader with a host PC. It will work with a device that uses the typical Microsoft Bluetooth® Stack that is standard with a Microsoft Windows® operating system or other driver such as BlueSoleil™, WIDCOMM® or Toshiba®.

Some PCs and/or Bluetooth® devices may be provided with drivers that differ in appearance or terminology, nevertheless, the basic steps to associate the devices should be similar.

Additional information is available in the Product Reference Guide (PRG).

There are two different ways the reader can connect to a PC, either using the standard Bluetooth Serial Port Profile (SPP) or HID Profile.

- **SERIAL PORT PROFILE** - The reader connects to the Bluetooth-enabled PC and emulates a serial cable to provide a simple substitute for an existing RS-232 connection, including the familiar control signals. The reader supports two communication types: Serial Port Profile (Master) and Serial Port Profile (Slave).
- **HID PROFILE** - The reader connects to the Bluetooth-enabled PC and emulates a virtual keyboard on the Host.

SPP Profile

About SPP Profile Modes

Two modes are available in SPP Profile:

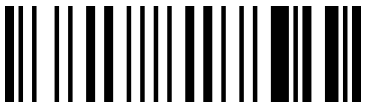
- **Master** - Active mode. The device seeks out other Bluetooth devices with which to connect. In other words, the computer searches for Bluetooth devices such as keyboards, earphones, mobile phones, etc.
- **Slave** - Passive mode. The device listens for a connection request from other Bluetooth devices.

Before attempting to make the connection between the reader and a Bluetooth-enabled PC, ensure the Bluetooth adapter device is plugged into the computer, and any drivers provided with that device are installed.

Restore Defaults

If something goes wrong during configuration/connection, use the bar code below to restore the reader to its original default settings.

Restore PowerScan BT8300 Defaults



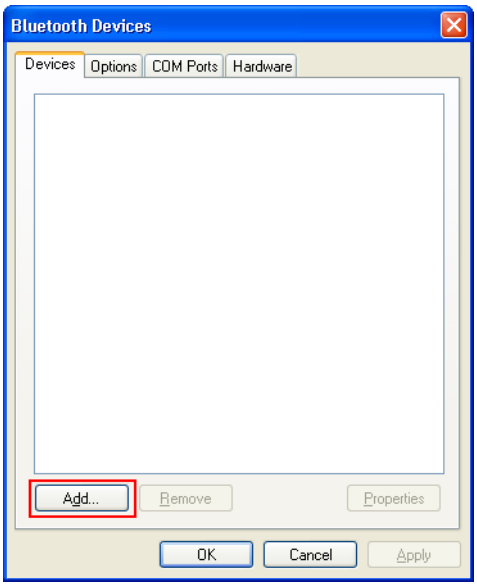
Microsoft Windows® XP

Serial Port Profile (Slave)

1. Read the following bar code to set the reader to Serial Port Profile (Slave) mode.

Serial Port Profile (Slave)

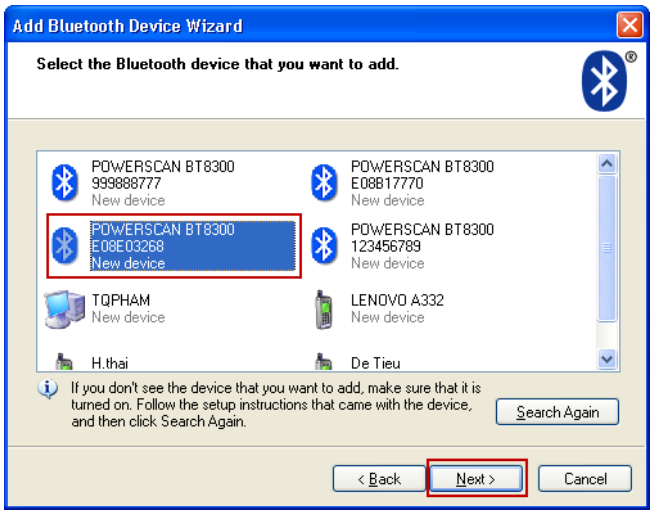
2. From your PC's Control Panel (or the system tray), open **Bluetooth Devices**. Click the **Add** button to search for Bluetooth devices



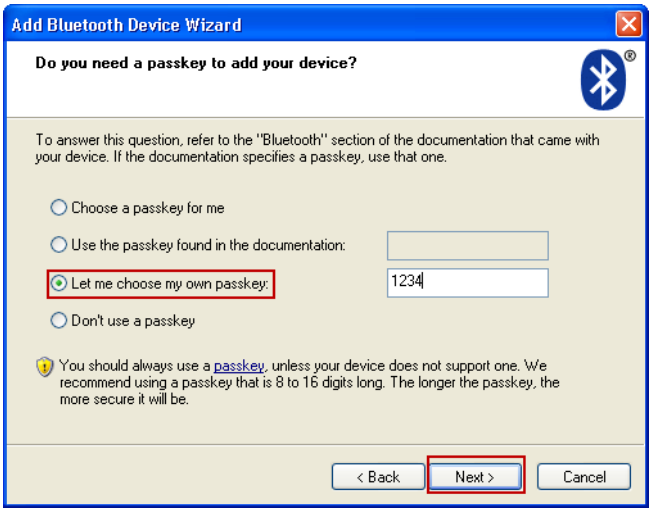
3. Select **My device is set up and ready to be found**. Click **Next**

After a few seconds, a window will appear showing all Bluetooth devices within radio range. Select the PowerScan BT8300 reader you want to connect with.

Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.

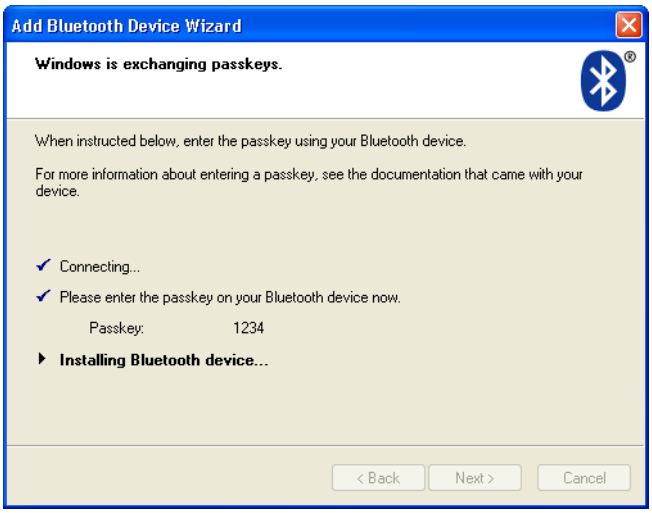


4. Select **Let me choose my own passkey** and type the default Pin code: **1234**. Click **Next** to continue.



The Pin Code can be changed for additional security. See the PRG for more information.

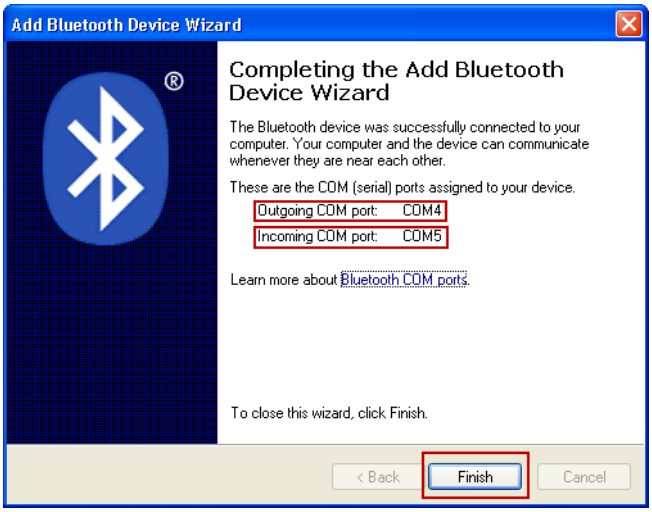
5. Wait as your Bluetooth device connects to the reader.



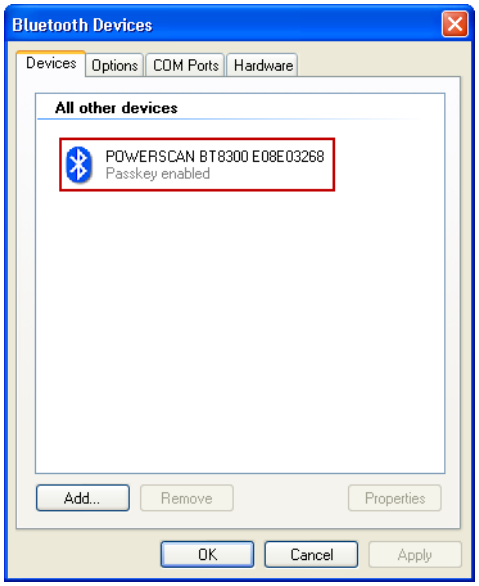
When completed, a window will appear showing the reader is successfully connected in SPP. The Outgoing & Incoming COM port assignments shown are used for the different types of profile:

- Outgoing COM Port: for Serial Port Profile (Slave)
- Incoming COM Port: for Serial Port Profile (Master)

6. Click Finish.



7. The reader is now connected to your PC, and will be displayed in the Bluetooth Devices window.

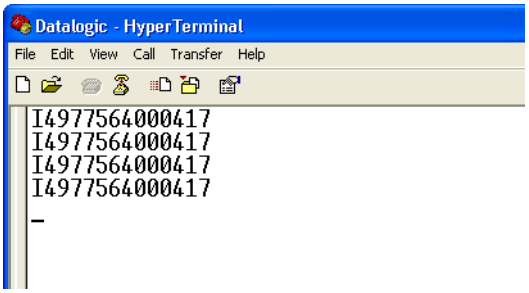


Testing the “Slave” Connection

1. To test the connection, on the PC go to **Start > Programs > Accessories > Communications**, and open HyperTerminal to set up a serial connection.
2. The **New Connection** dialog will open. Enter a name in the **Connection Description** window, then click **OK**.

3. In the **Connect using** field, select the Outgoing COM port displayed when you completed the **Add Bluetooth Device** Wizard in the previous sequence. Click **OK** to continue.

4. Four ascending beeps will be emitted, signaling the reader has been successfully connected to the Bluetooth-enabled PC. Now the user can read bar code labels and verify the data appears in the Terminal window on the PC.



Serial Port Profile (Master)

Read the bar code below to configure the reader in Serial Port Profile (Master) mode.

Serial Port Profile (Master)

1. Create a label to link the reader to the PC Bluetooth connection. The label must be Code 128 symbology and contain the PC Bluetooth address with following formatting:

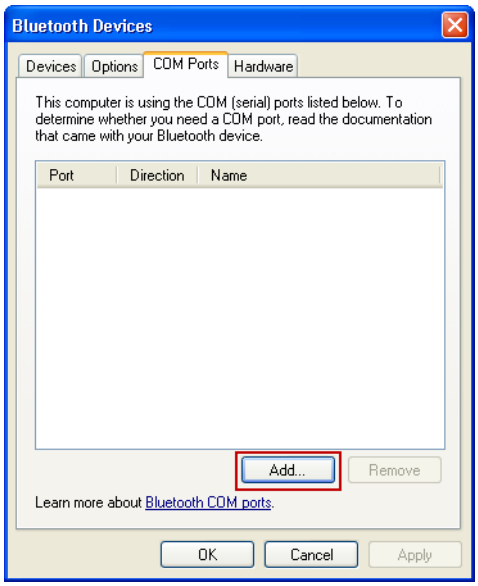
   $+QS<12hex characters>$-

   The address is usually shown in the Hardware tab of the Bluetooth Devices window. The label should look similar to this example:

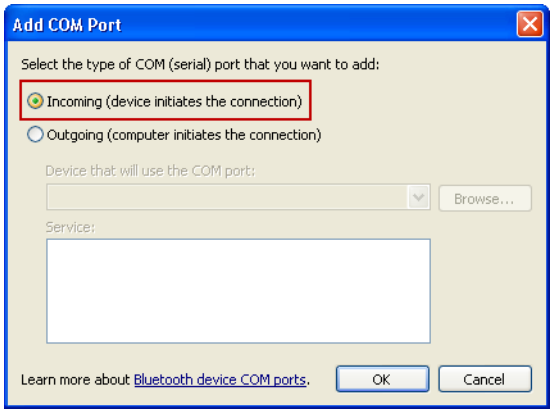
   Linking Label Demo in Serial Port Profile (Master)

   $+QS001167558F69$-

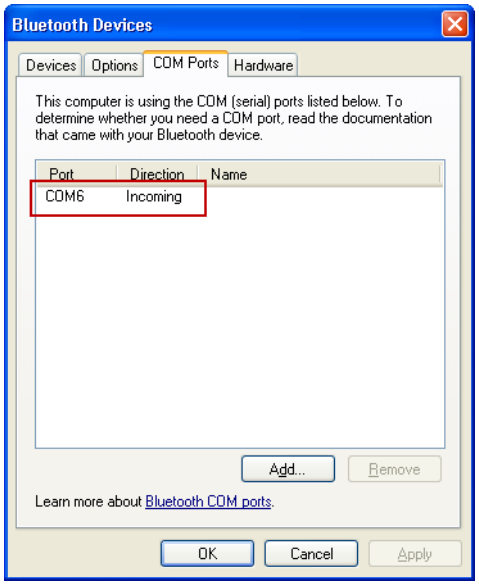
2. Open the **Bluetooth Devices** program in the Control Panel (or in the system tray). Select the **COM Ports** tab and click **Add**.



3. Click to select the Incoming COM Port.



4. You will receive a notification when the Incoming COM Port is added successfully.



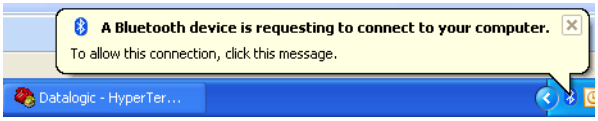
If you made a Connection in Serial Port Profile (Slave) previously, the Incoming COM Port should be specified already. In this case you will NOT need to add it again.

Testing the "Master" Connection

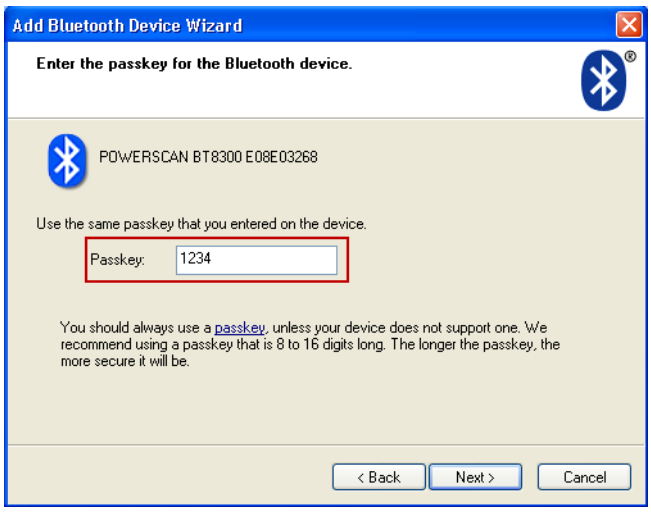
1. To test the connection, on the PC go to **Start > Programs > Accessories > Communications**, and open HyperTerminal.
2. The **New Connection** dialog will open. Enter a name in the **Connection Description** window, then click **OK**.

3. In the **Connect using** field, select the Incoming COM port displayed when you completed the **Add Bluetooth Device** Wizard. Click **OK** to continue.

4. Using the reader, scan the label you created above to initiate the connection to the PC.
5. A message alert will appear in the PC's taskbar system tray, showing that a device wants to connect to the PC.

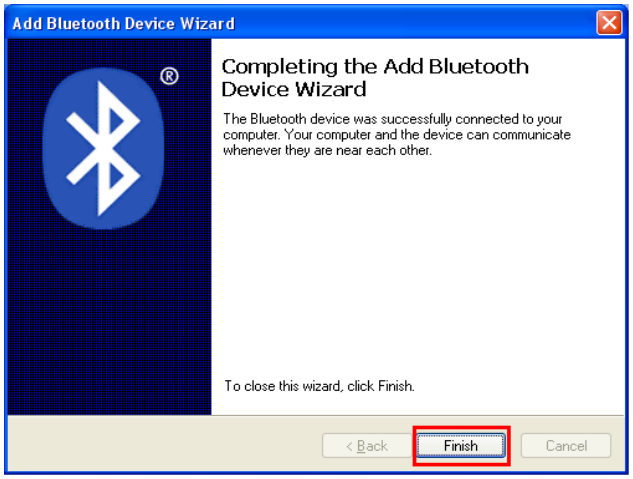


6. Click on the message and input the Default Pin Code = **1234**. Click **Next** to continue.

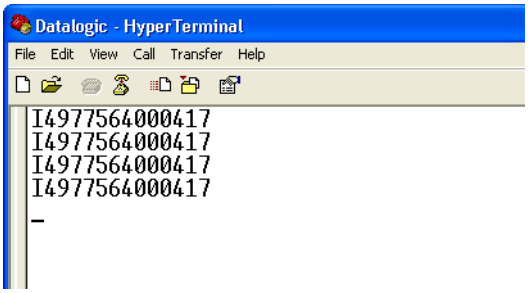


The Pin Code can be changed for additional security. See the PRG for more information.

7. Click **Finish**.



8. The reader will emit four ascending beeps, signaling a successful connection to the PC. Now the user can read bar code labels and verify the data appears in the Terminal window.



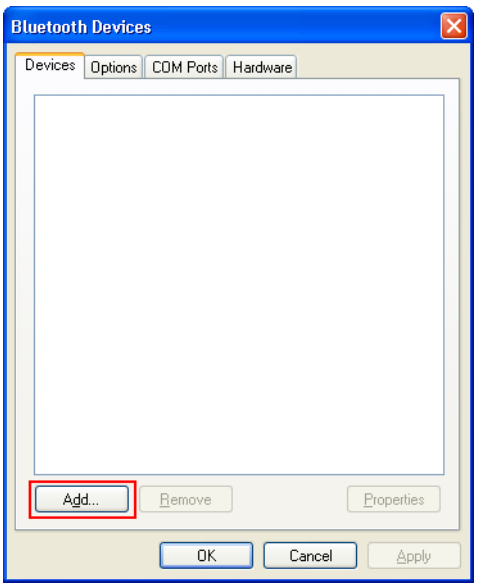
When the terminal connection is closed, the reader will emit a series of four descending beeps to indicate it is no longer connected. The reader will automatically reconnect when the terminal connection is re-opened, indicated by four ascending beeps.

HID Profile

1. To configure the reader to work in HID Profile, scan the label below:

HID Profile

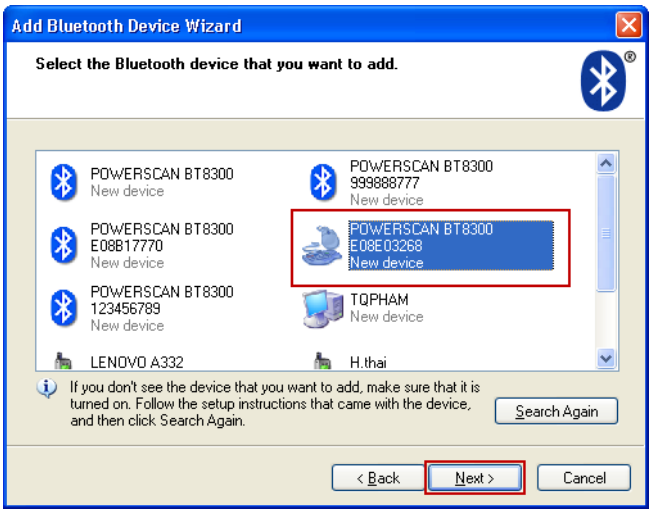
2. From your PC's Control Panel (or the system tray), open **Bluetooth Devices**. Click the **Add** button to search for Bluetooth devices



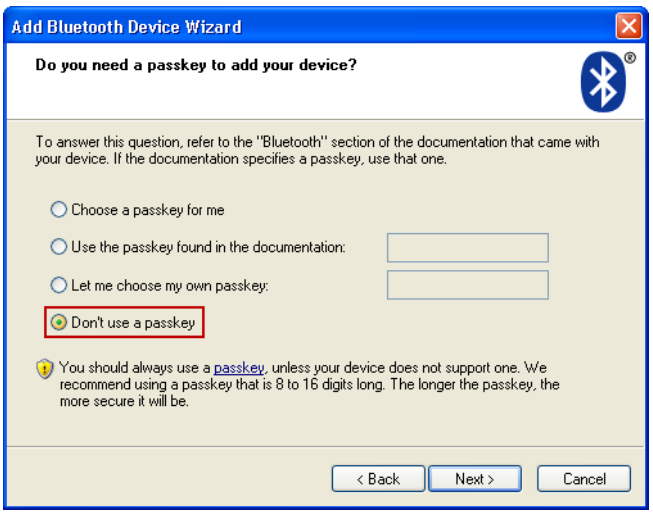
3. Select **My device is set up and ready to be found**. Click **Next** to continue

4. After a few seconds, a window will appear showing all Bluetooth devices within radio range. Select the reader you want to connect with.

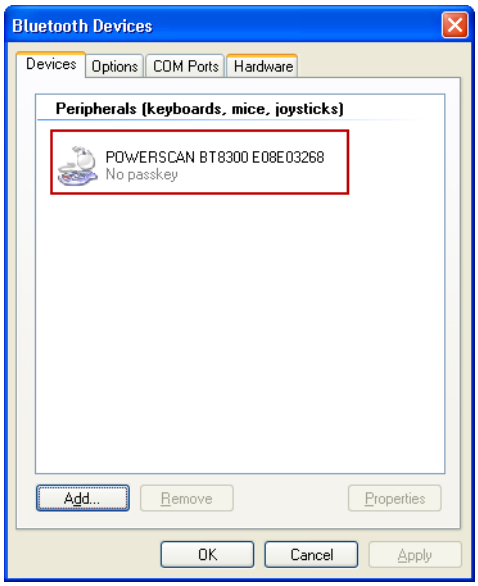
Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.



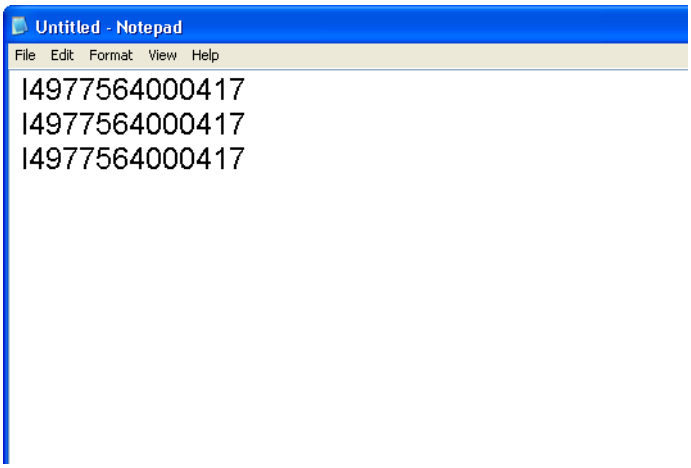
5. Select **Don't use a passkey**, then click **Next** to continue.



6. Wait as your Bluetooth device connects to the reader. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC. Devices connected via BT will be displayed in the Bluetooth Devices window.



7. Now the user can read bar code labels and verify the data can be observed in Notepad on the PC.



Serial Port Profile (Slave)

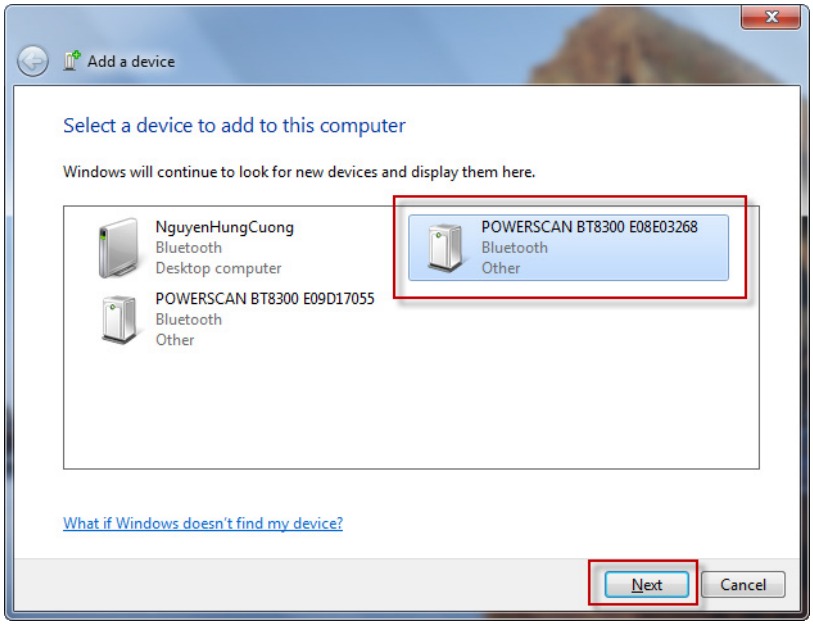
1. Read the following bar code to set the reader to Serial Port Profile (Slave) mode.

Serial Port Profile (Slave)

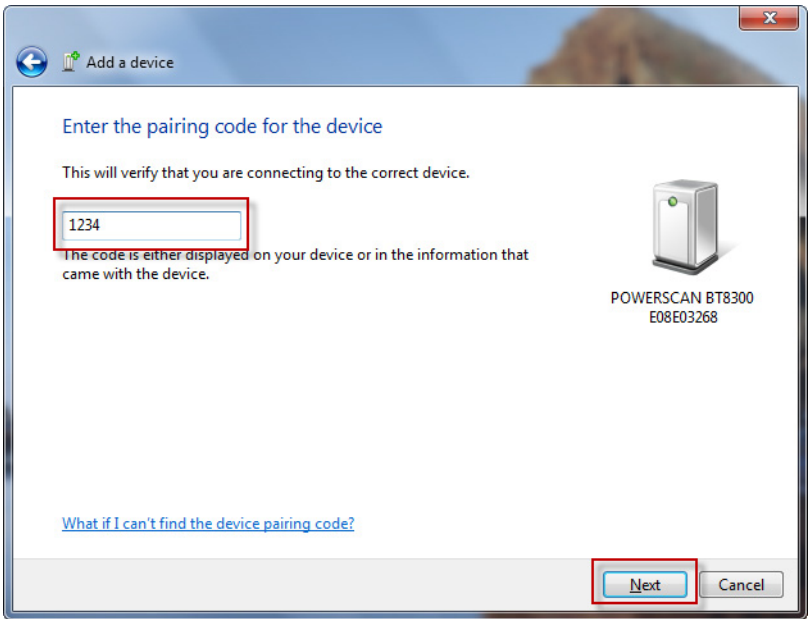
2. From your PC's system tray, click on the **Bluetooth** icon and choose **Add a Device** to search for Bluetooth devices

3. After a few seconds, a window will appear showing all Bluetooth devices within radio range. Select the reader you want to connect with.

Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your reader for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.

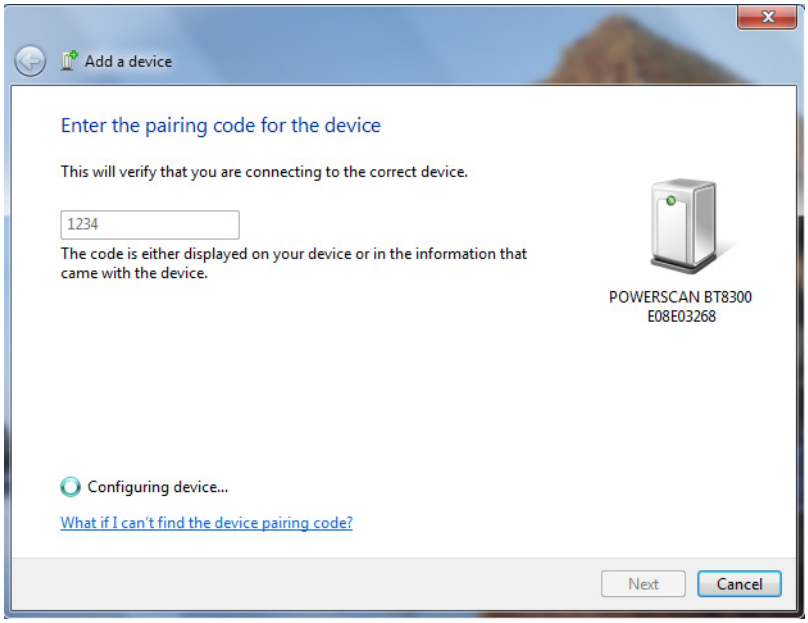


4. Type the default Pin code: **1234**. Click **Next** to continue.

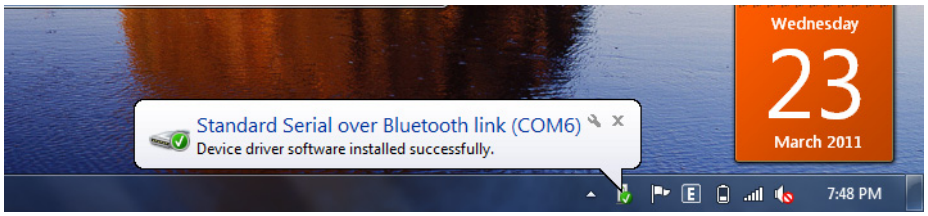


The Pin Code can be changed for additional security. See the PRG for more information.

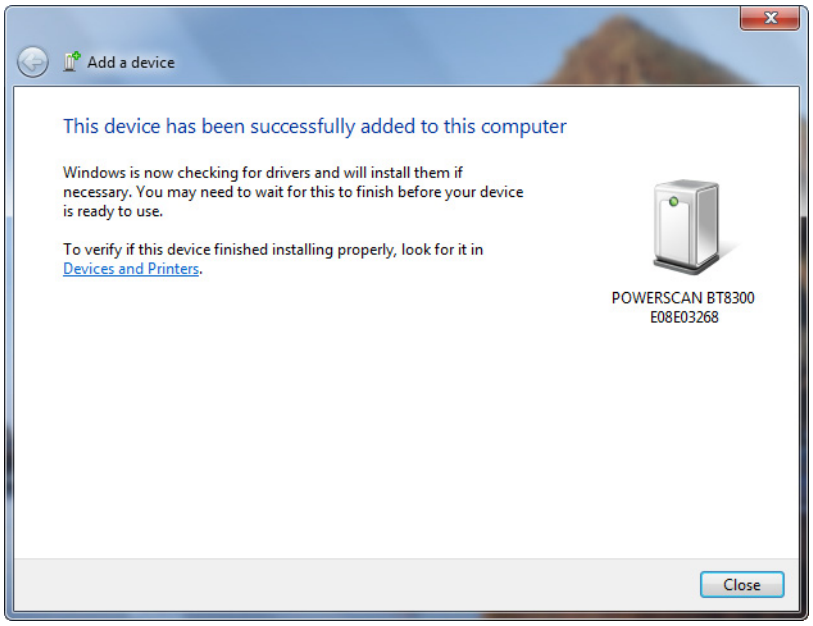
5. Wait as your Bluetooth device connects to the reader.



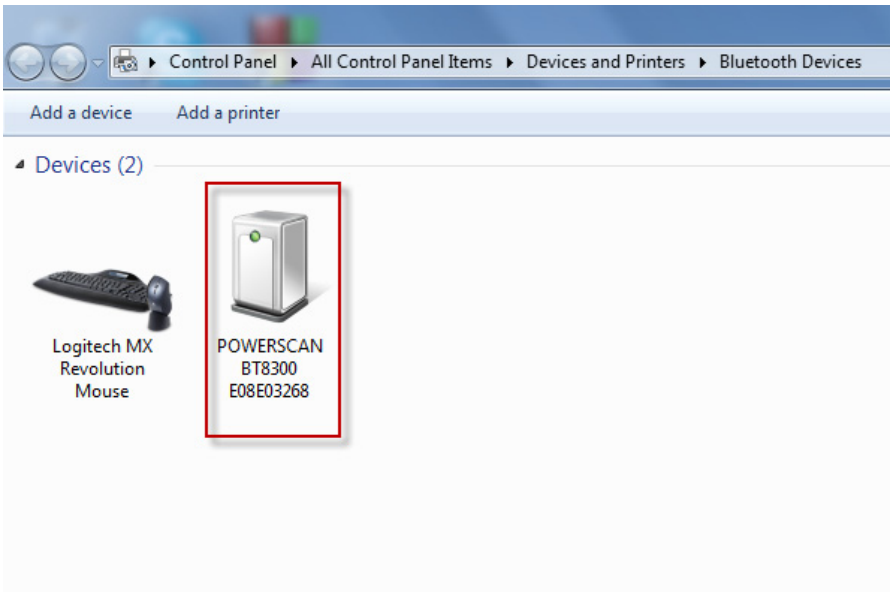
6. Notification will appear in the system tray showing the COM Port being used for the SPP Profile (Slave).



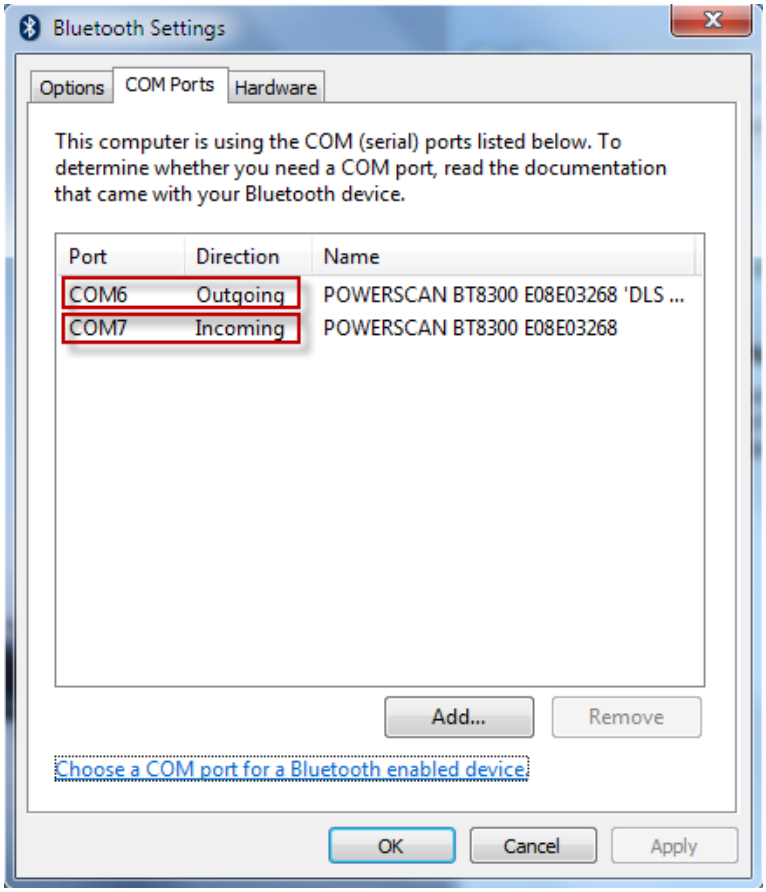
7. The next window indicates the reader has been successfully added to the Host.



8. The reader is now connected to your PC, and will be displayed in the Bluetooth Devices window.



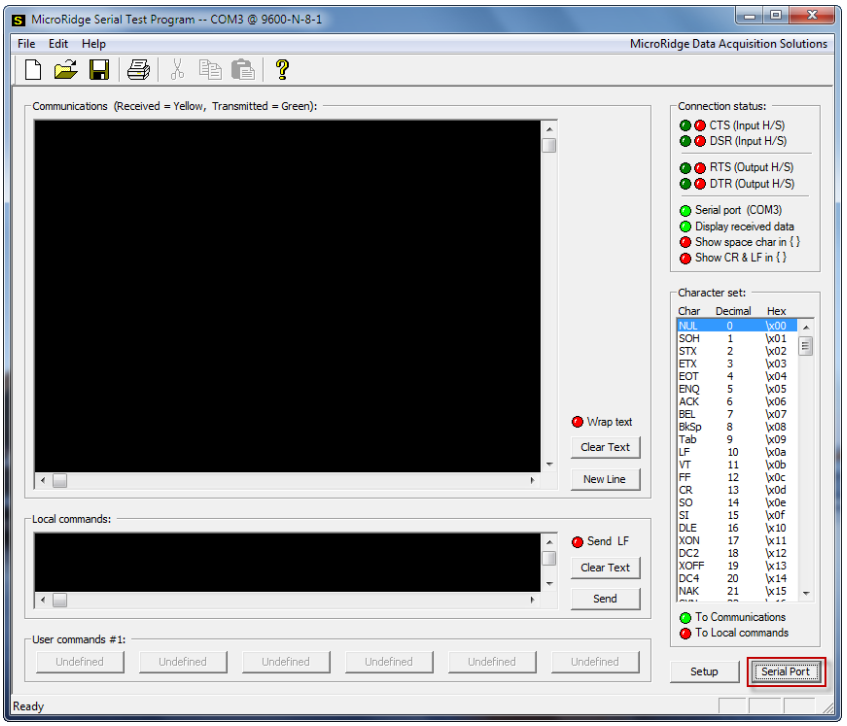
9. In addition, when a reader has been successfully added to the Host, the COM port assignment(s) will be shown from the **Open Settings\COM Ports** selection of the Bluetooth menu. These assignments represent the different profile types as follows:
   - **Outgoing COM Port**: For Serial Port Profile (Slave)
   - **Incoming COM Port**: For Serial Port Profile (Master)



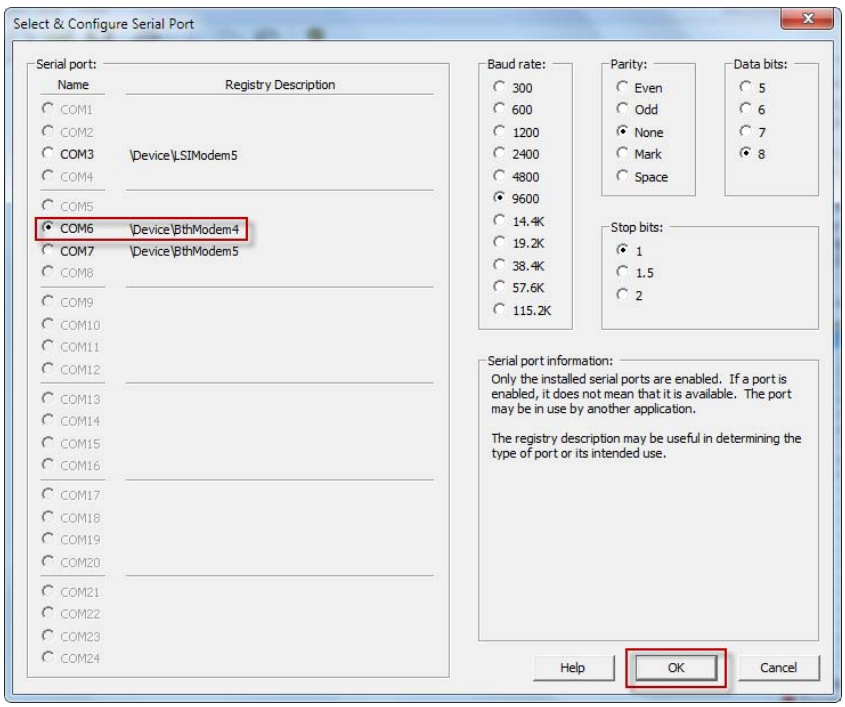
Testing the "Slave" Connection

Since **HyperTerminal** is not included in Microsoft Windows 7, an equivalent application such as **MicroRidge Serial Test Program** (available free from the web)**,** can alternatively be used to test the connection.

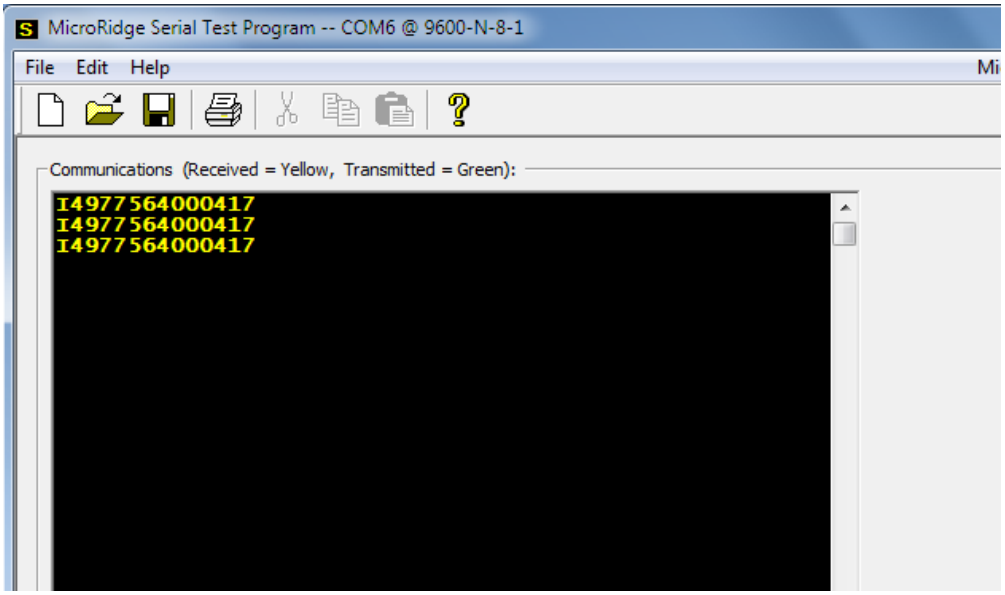
1. Start the **MicroRidge Serial Test Program** and click the **Serial Port** button in the lower right-hand corner of the screen to open the COM Port.



2. In the **Serial Port** field, select the Outgoing COM port displayed when you completed the **Add Bluetooth Device Wizard** in the previous sequence. Click **OK** to continue.



3. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC. Now you can read bar code labels, and the data will appear in the **MicroRidge Serial Test Program** window.



Serial Port Profile (Master)

Read the bar code below to configure the reader in Serial Port Profile (Master) mode.

Serial Port Profile (Master)

1. Create a label to link the reader to the PC Bluetooth connection. The label must be Code 128 symbology and contain the PC Bluetooth address with the following formatting:

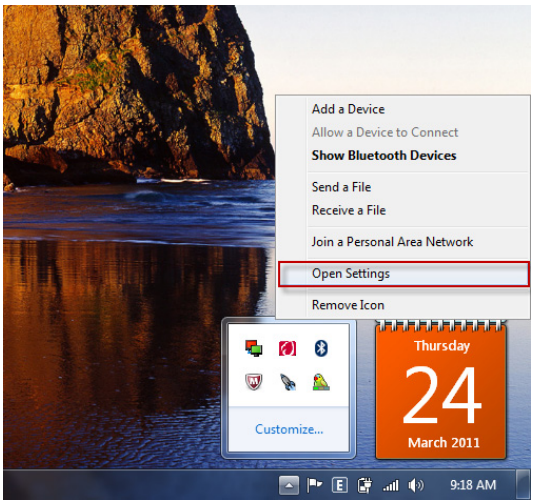
   $+QS<12hex characters>$-

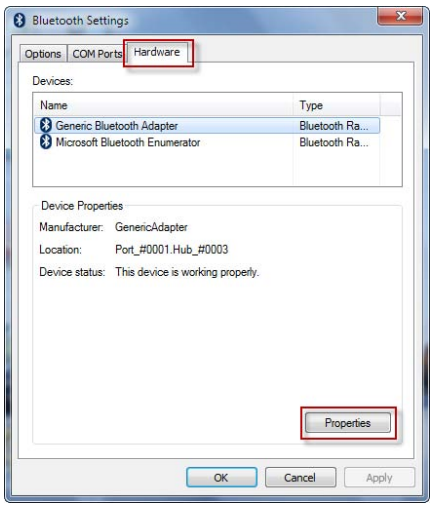
   The address is usually shown in the Hardware tab of the Bluetooth Devices window. The label should look similar to this example:

   Linking Label Demo in Serial Port Profile (Master)

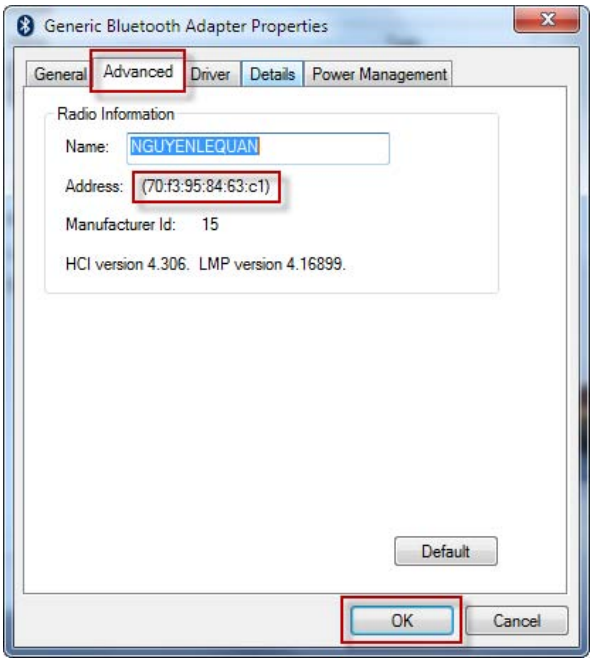
   $+QS70F3958463C1$-

2. To learn the Bluetooth address of your PC, click the Bluetooth icon from your system tray and choose **Open Settings,** then click on the **Hardware** tab and select **Properties**.

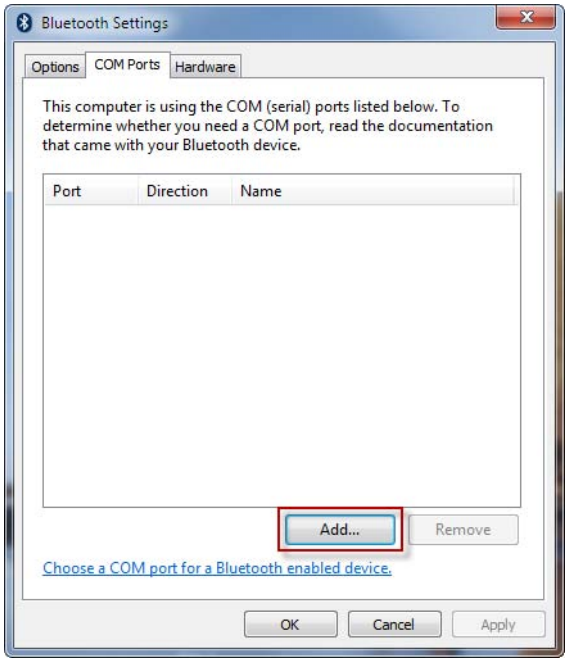




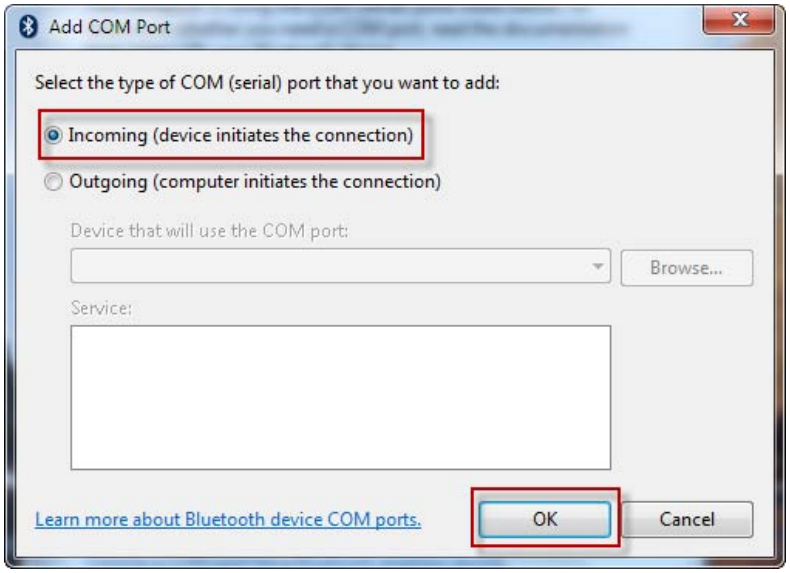
3. Next, select the **Advanced** tab to see the **12-character hex Bluetooth Address** of your PC.



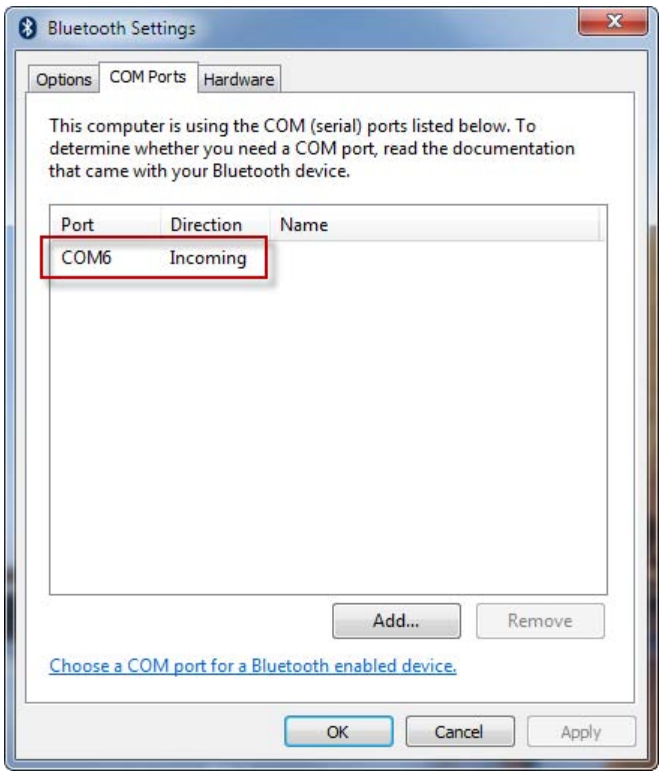
4. From your system tray, click the **Bluetooth icon**, then open **Settings**. Select the **COM Ports** tab and then click **Add**.



5. Select the Incoming **COM Port** and click **OK** to continue.



6. A notification screen will advise that an incoming COM Port is successfully added.

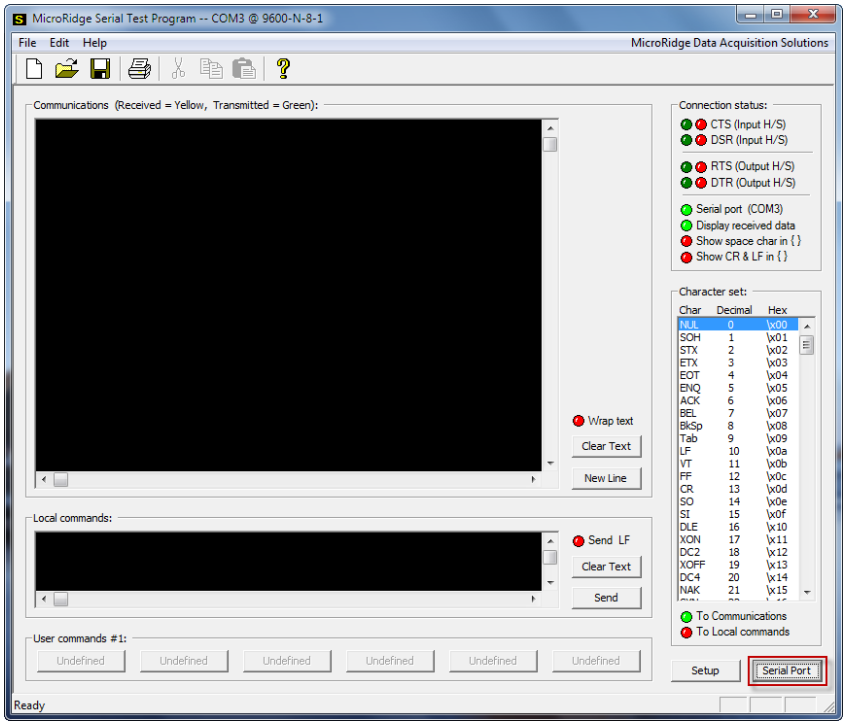


If you made a Connection in Serial Port Profile (Slave) previously, the Incoming COM Port should be specified already. In this case you will NOT need to add it again.

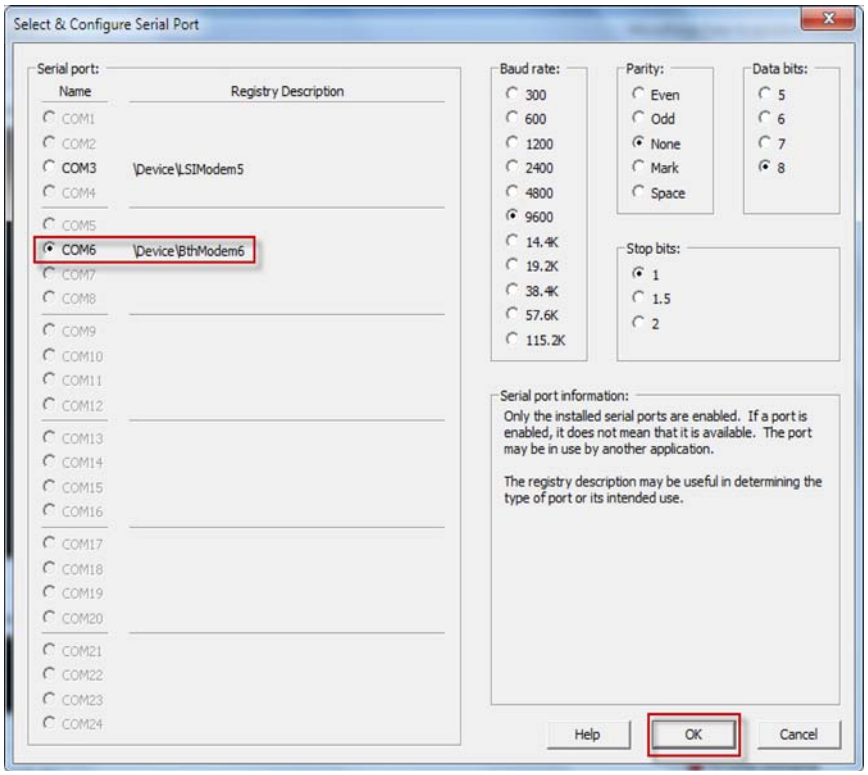
Testing the "Master" Connection

Since **HyperTerminal** is not included in Microsoft Windows 7, an equivalent application such as **MicroRidge Serial Test Program** (available free from the web), can alternatively be used to test the connection.

1. Start the **MicroRidge Serial Test Program** and click the **Serial Port** button in the lower right-hand corner of the screen to open the COM Port.

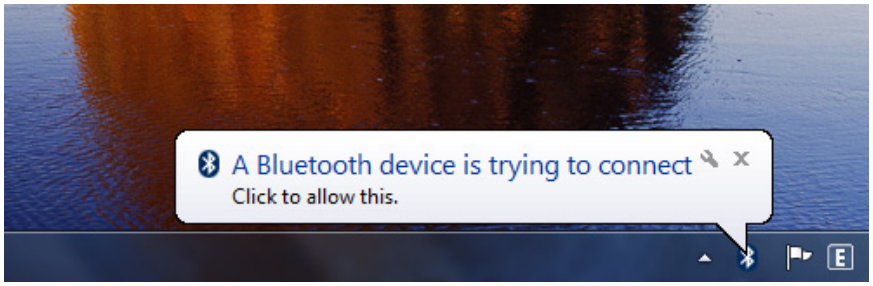


2. In the **Serial Port** field, select the Outgoing COM port displayed when you completed the **Add Bluetooth Device Wizard** in the previous sequence. Click **OK** to continue.

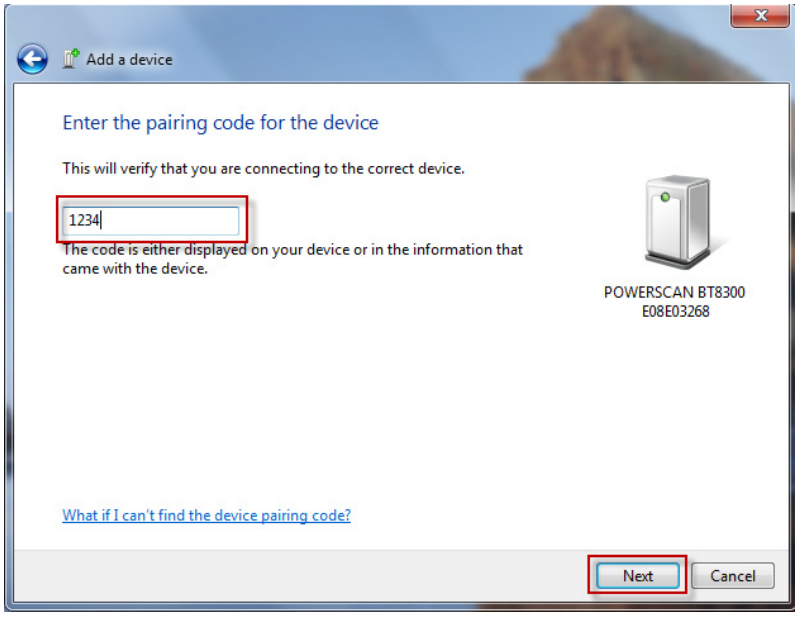


3. Use the reader to scan the label you created earlier to initiate the connection to the PC.

4. An alert will appear in the PC's taskbar system tray, showing that a device is requesting permission to connect to the PC.



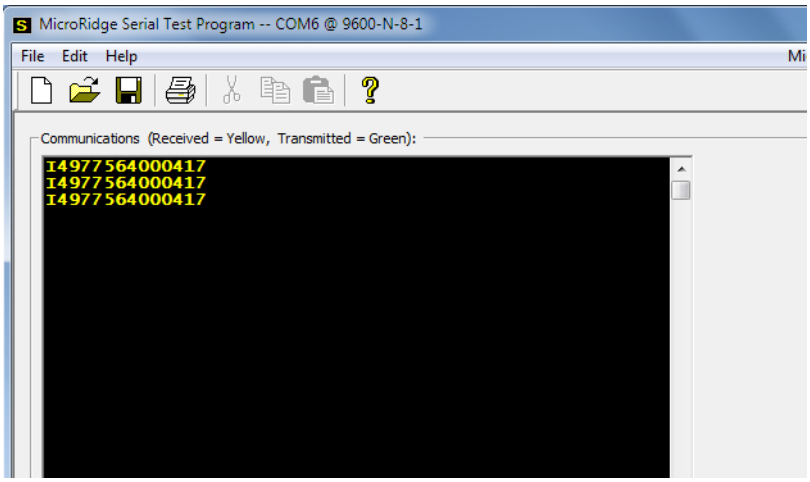
5. Click on the message and input the **Default Pin Code = 1234**. Click **Next** to continue.



The Pin Code can be changed for additional security. See the PRG for more information.

6. Click **Close** in the notification window.

7. The reader will emit four ascending beeps, signaling a successful connection to the PC. Now the user can read bar code labels and verify the data appears in the **MicroRidge Serial Test Program** window.



When the terminal connection is closed, the reader will emit a series of four descending beeps to indicate it is no longer connected. The reader will automatically reconnect when the terminal connection is re-opened, indicated by four ascending beeps.

HID Profile

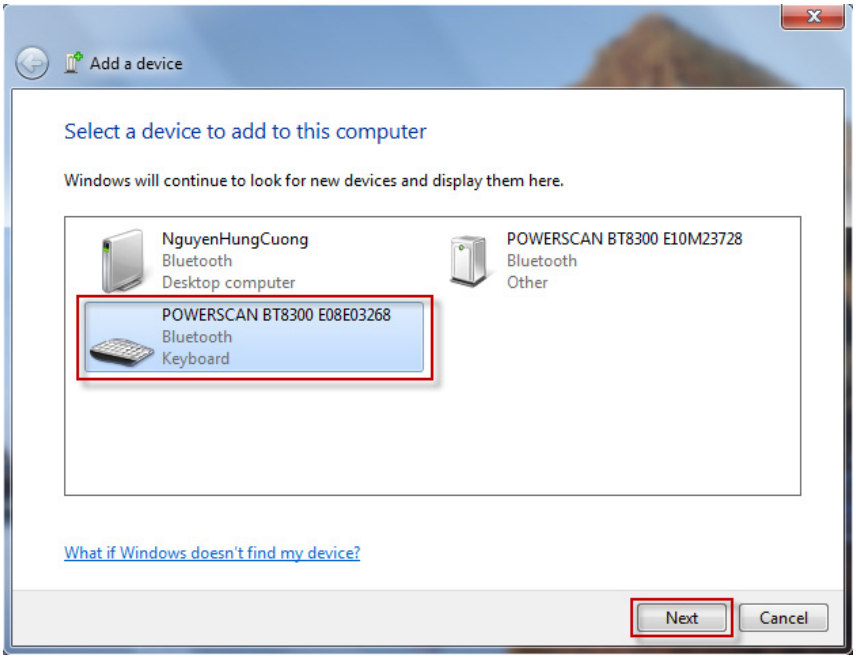
1. To configure the reader to work in HID Profile, scan the label below:

HID Profile

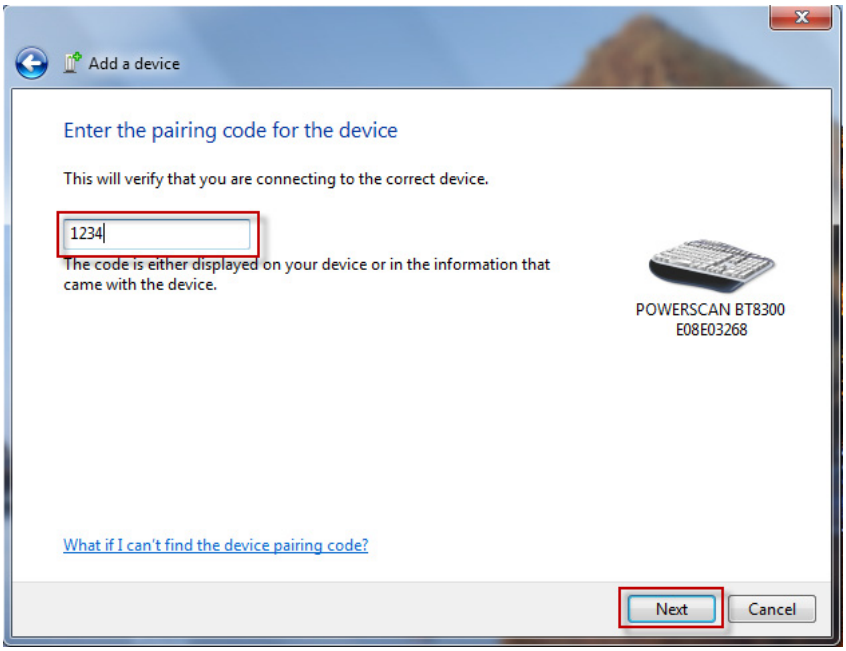
2. From your PC's system tray, open Bluetooth icon and choose **Add a Device** to search for Bluetooth devices.

3. After a few seconds, a window will appear showing all Bluetooth devices within radio range. Select the reader you want to connect with.

Each reader found will list the default Bluetooth name of each PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.

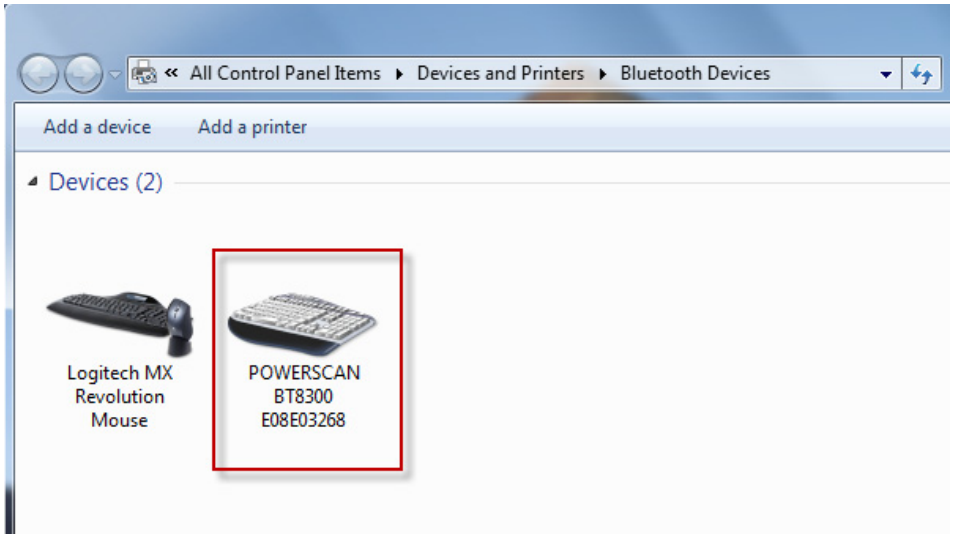


4. Input the **Default Pin Code = 1234**. Click **Next** to continue.

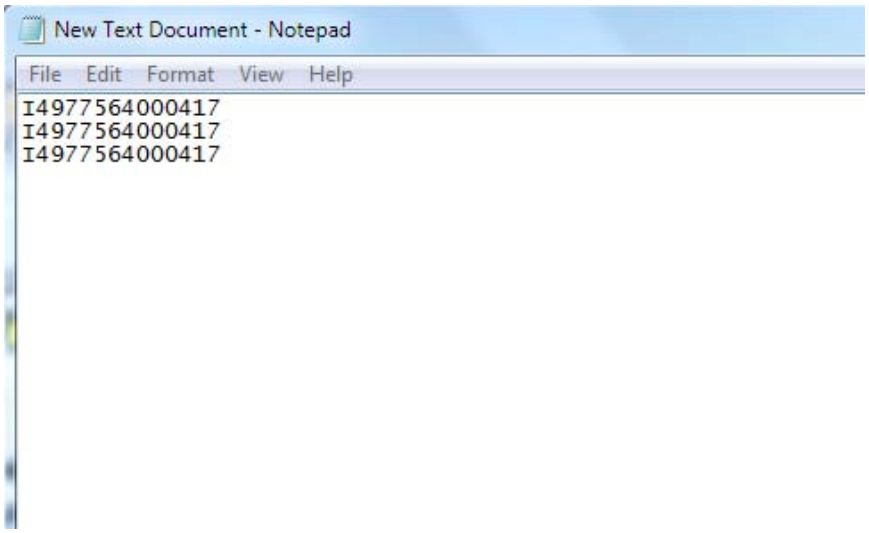


The Pin Code can be changed for additional security. See the PRG for more information.

5. Wait as your Bluetooth device connects to the reader. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC. Devices connected via BT will be displayed in the Bluetooth Devices window.



6. Now the user can read bar code labels and verify the data can be observed in Notepad on the PC.



WIDCOMM®

WIDCOMM® was the first Bluetooth® stack for the Windows operating system. The stack was initially developed by a company named Widcomm Inc., which was acquired by Broadcom Corporation in April 2004. Broadcom continues to license the stack for inclusion with many Bluetooth powered end-user devices.

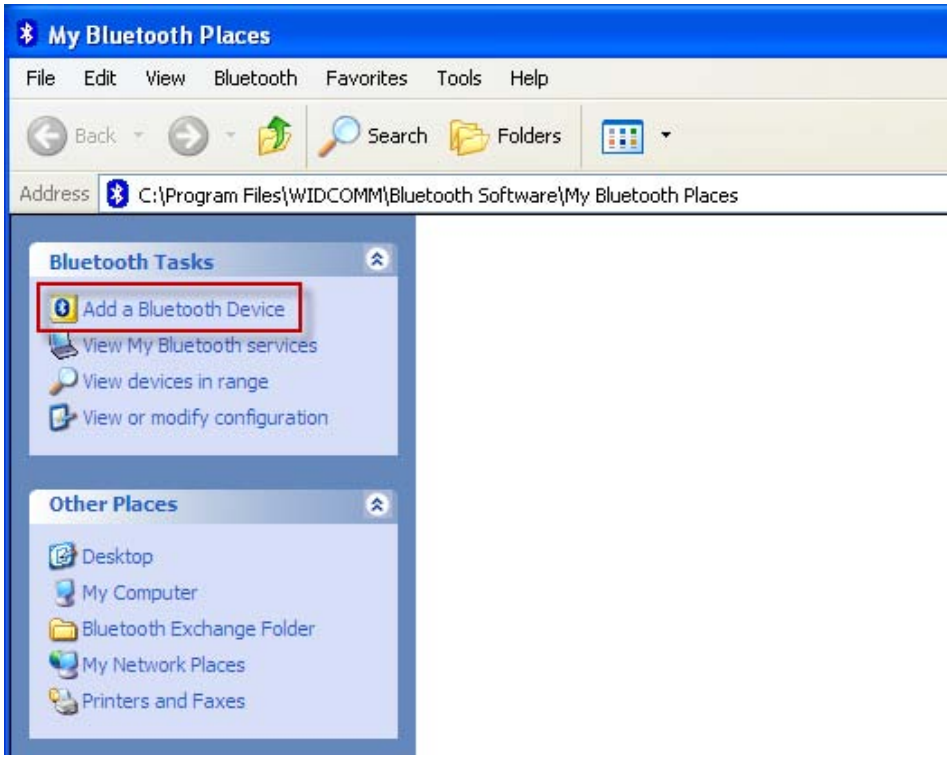
WIDCOMM Bluetooth is free software which allows communication between a computer and certain Bluetooth devices. This requires a computer equipped with either a USB plug-in Bluetooth wireless adapter, or an embedded Broadcom device. WIDCOMM Bluetooth (BTW) is supported by Windows Vista, XP, 2000, Me, or 98 SE operating systems. BTW supports device level security such as encryption, authorization and authentication, bonding, and pairing. If a list of friendly names or devices addresses is entered on a PC, they can be granted access permission to that computer.

Serial Port Profile (Slave)

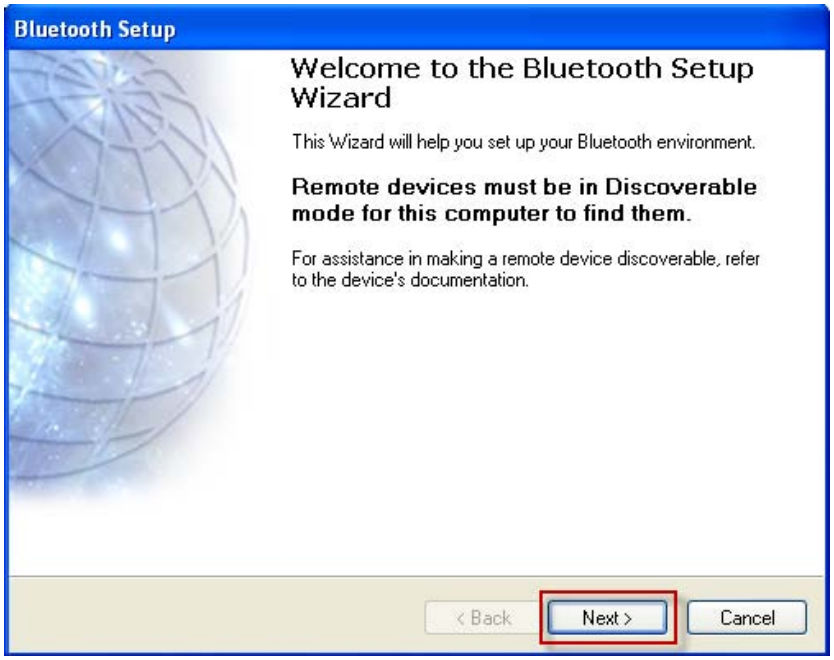
1. Read the following bar code to set the reader to Serial Port Profile (Slave) mode.

Serial Port Profile (Slave)

2. From your PC's system tray, click on the Bluetooth icon to open the **My Bluetooth Places** window. Click **Add a Bluetooth Device** to search for Bluetooth devices.



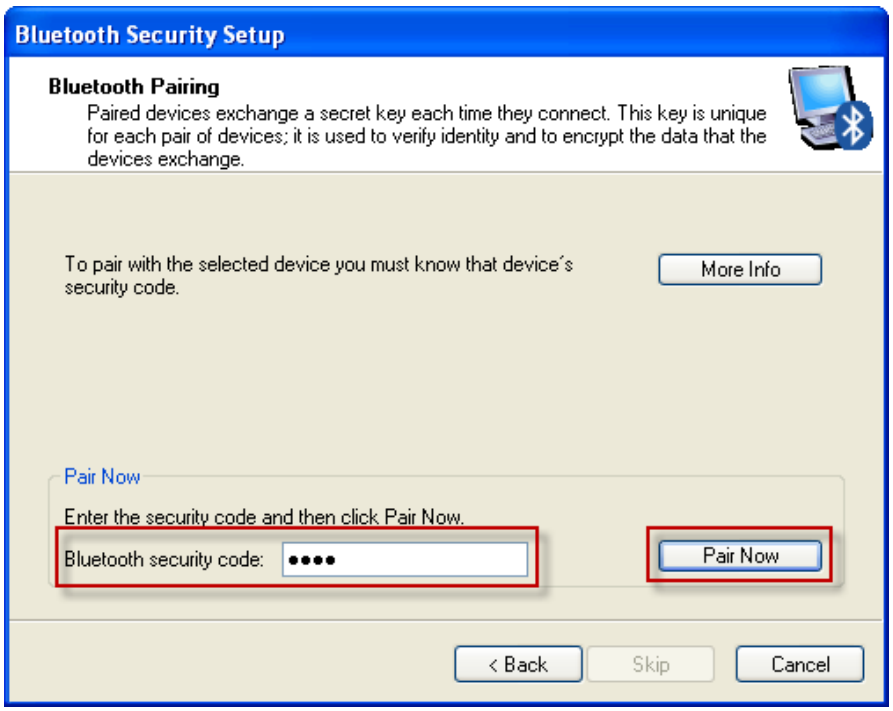
3. Click Next to continue.



4. After a few seconds, a window will appear showing all Bluetooth devices within radio range. Select the PowerScan BT8300 reader you want to connect with.

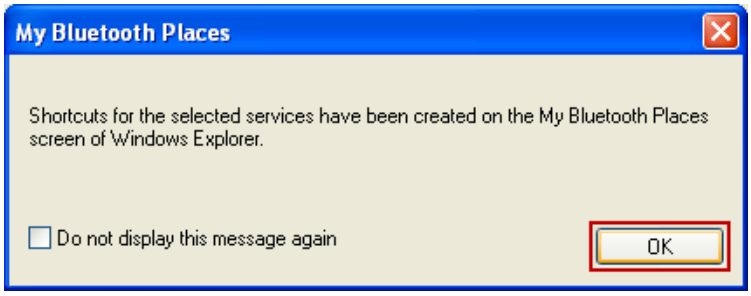
Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.

5. Type the **Default Pin Code: 1234**. Click **Pair Now** to continue.



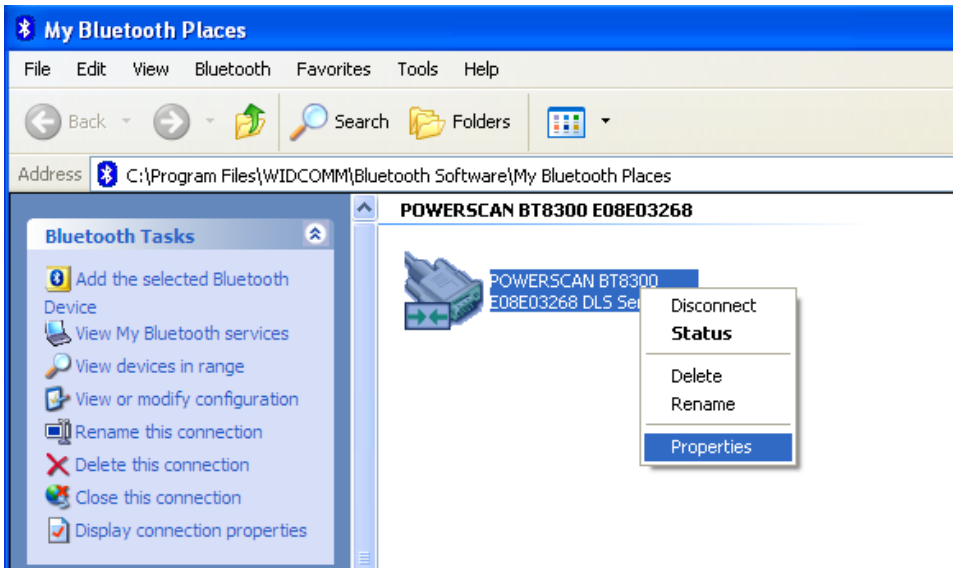
The Pin Code can be changed for additional security. See the PRG for more information.

6. Click **OK** in the notification window.

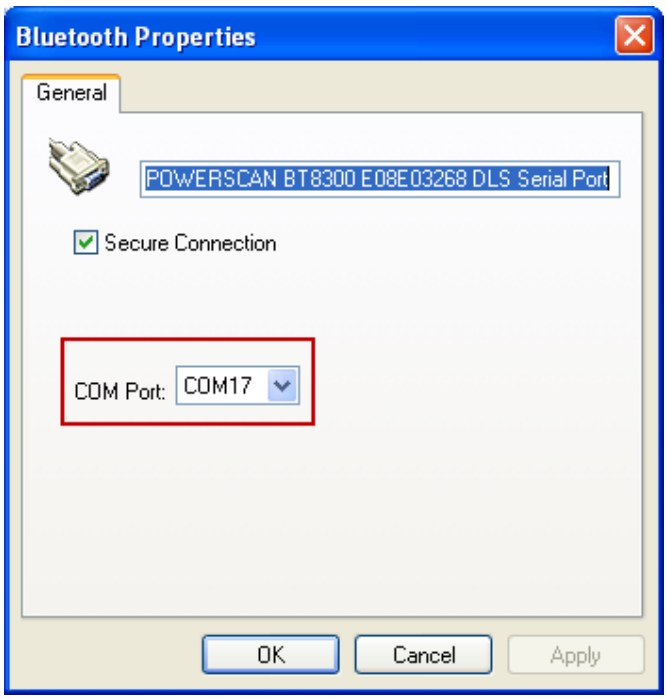


7. Click **Finish** to complete Bluetooth Setup Wizard.

8. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC. The reader will be displayed in the My Bluetooth Places window. To learn which COM Port is connected, right-click on the PowerScan BT8300 icon and select **Properties**.



9. The connected COM port is displayed in the Bluetooth Properties window.

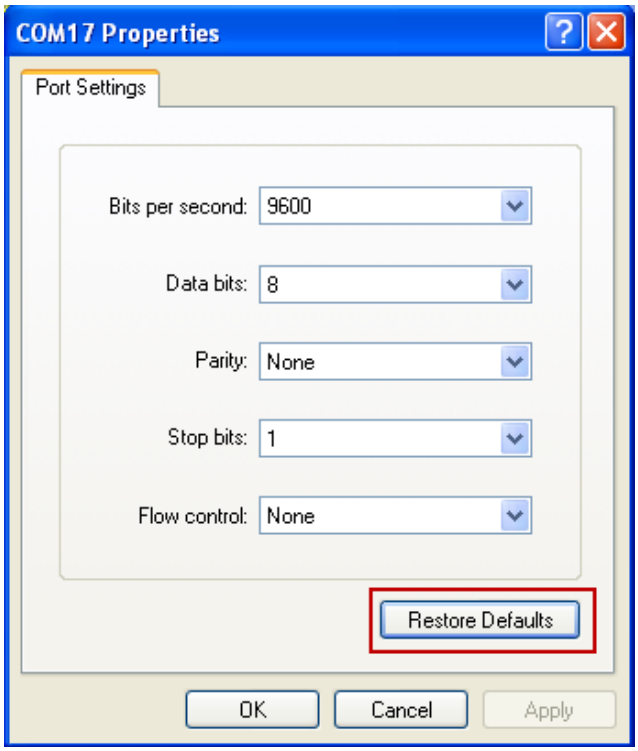


Testing the “Slave” Connection

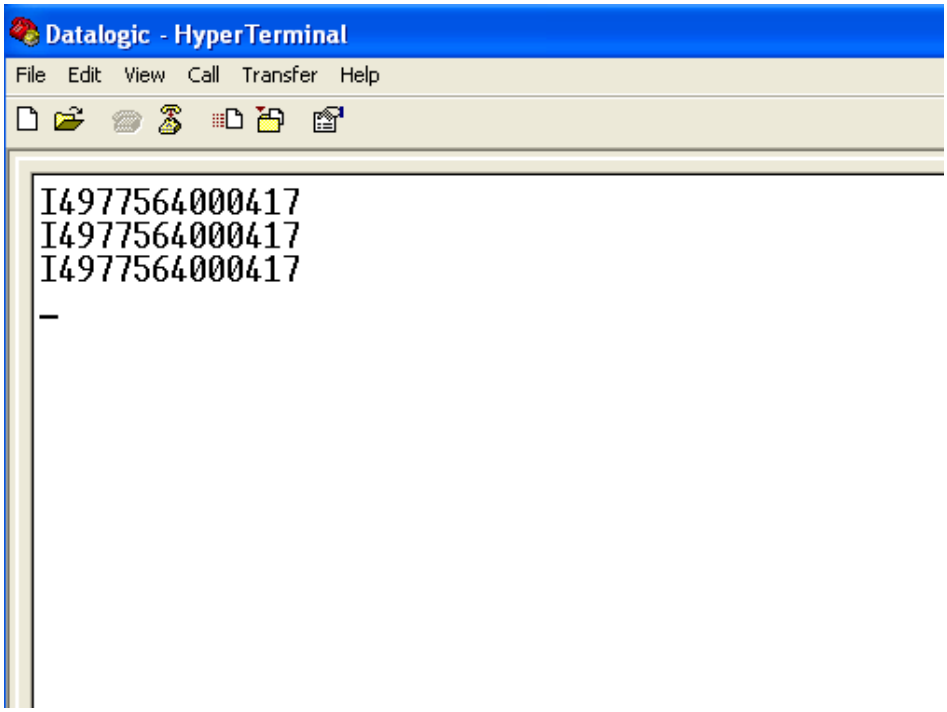
1. To test the connection, on the PC go to **Start > Programs > Accessories > Communications**, and open HyperTerminal to set up a serial connection.
2. The **New Connection** dialog will open. Enter a name in the **Connection Description** window, then click **OK**.

3. In the **Connect using** field, select the connected COM port identified when you completed the **Add Bluetooth Device** Wizard in the previous sequence. Click **OK** to continue.

4. Select **Restore Defaults** for COM Port Properties.



5. The user can now read bar code labels, and verify that the data will appear in the Terminal window on the PC.



Serial Port Profile (Master)

Read the bar code below to configure the reader in Serial Port Profile (Master) mode.

Serial Port Profile (Master)

1. Create a label to link the reader to the PC Bluetooth connection. The label must be Code 128 symbology and contain the PC Bluetooth address with the following formatting:

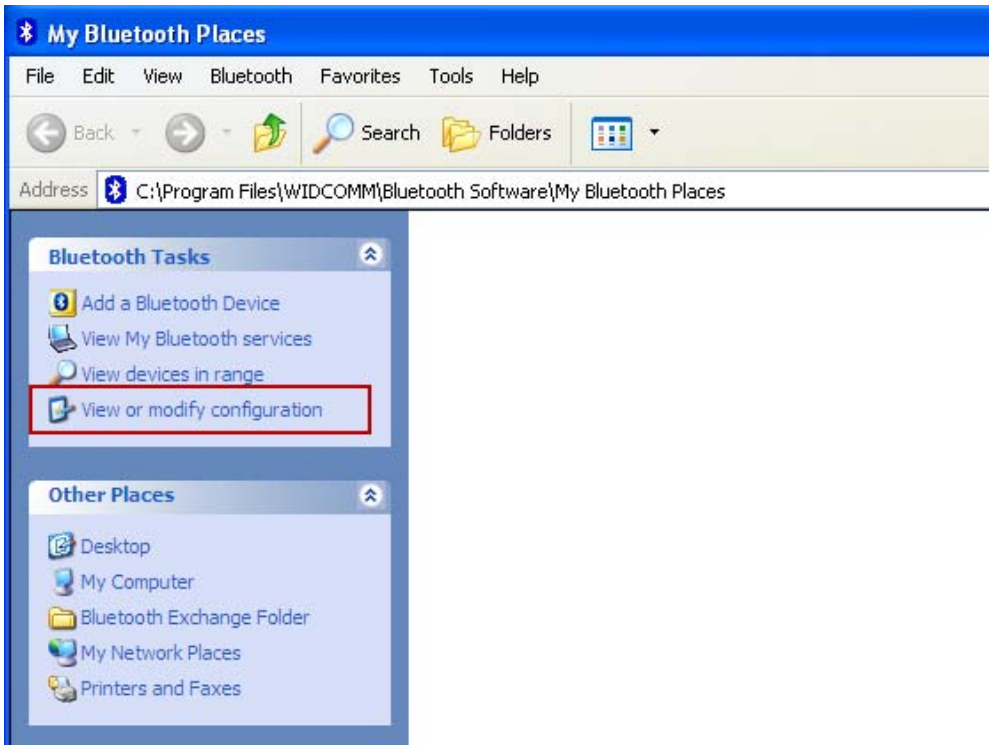
   $+QS<12hex characters>$-

   The address is usually shown in the Hardware tab of the Bluetooth Devices window. The label should look similar to this example:

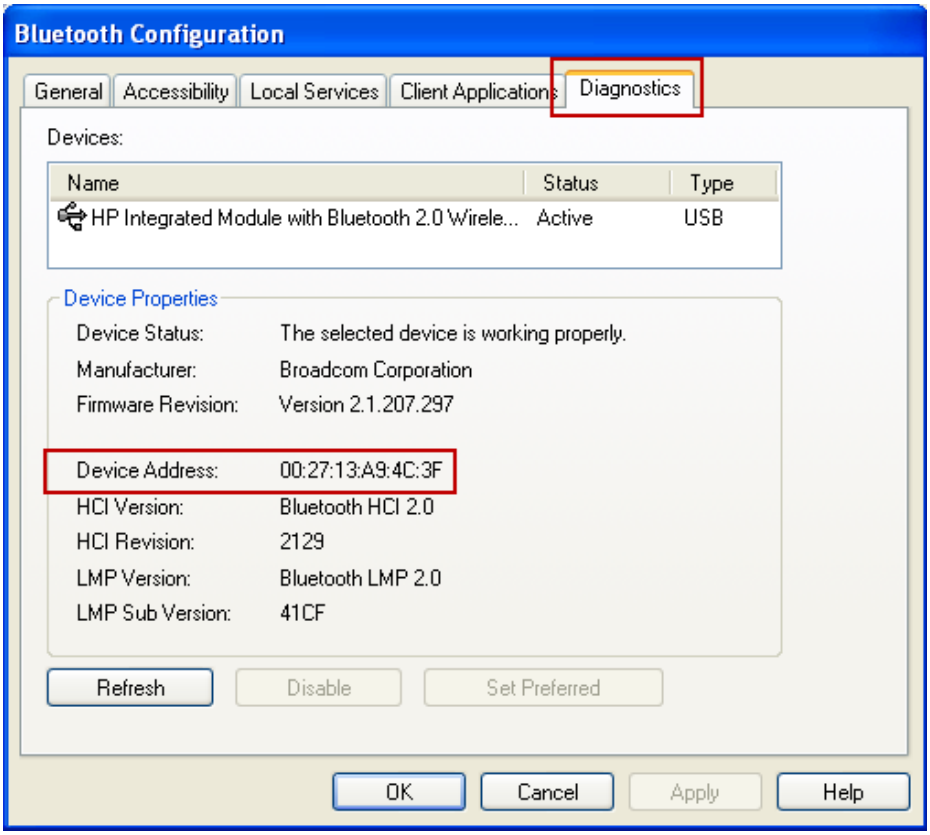
   Linking Label Demo in Serial Port Profile (Master)

   $+QS70F3958463C1$-

2. To learn the Bluetooth Address of your PC, open the **My Bluetooth Places** window and select View or modify configuration.



Select the **Diagnostics** tab to view the 12-hex character Bluetooth (Device) Address of your PC.

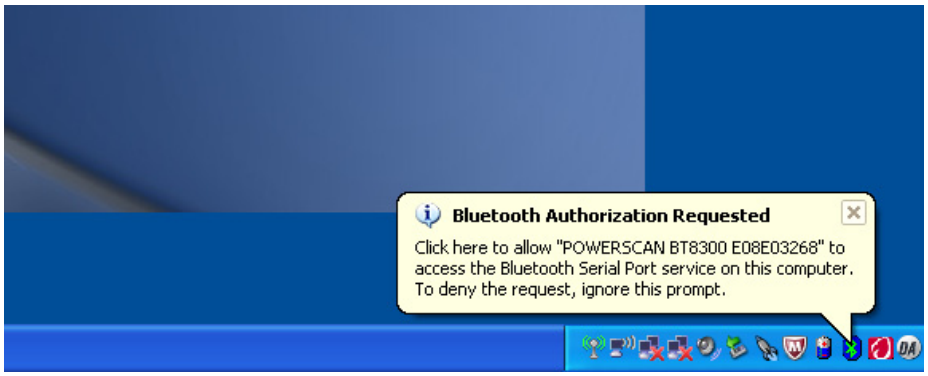


3. Using the reader, scan the label you created above to initiate the connection to the PC
4. A message alert will appear in the PC's taskbar system tray, showing that a device wants to connect to the PC.

5. Click on the message and input the **Default Pin Code = 1234**. Click **OK** to continue.

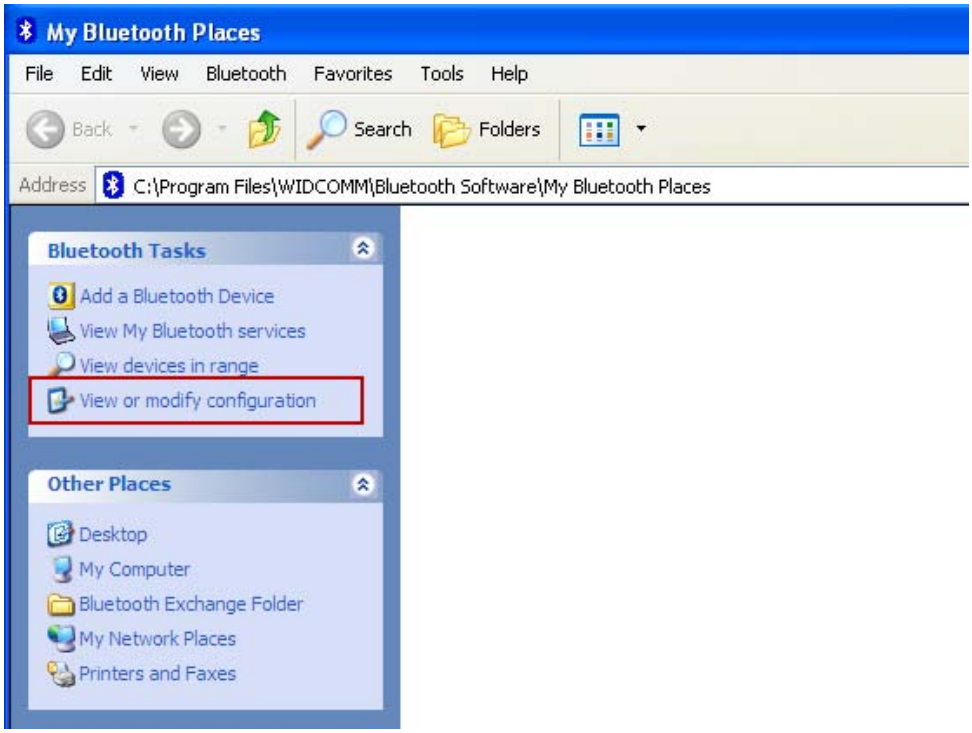
The Pin Code can be changed for additional security. See the PRG for more information.

6. A **Bluetooth Authorization Requested** message will appear in the system tray.

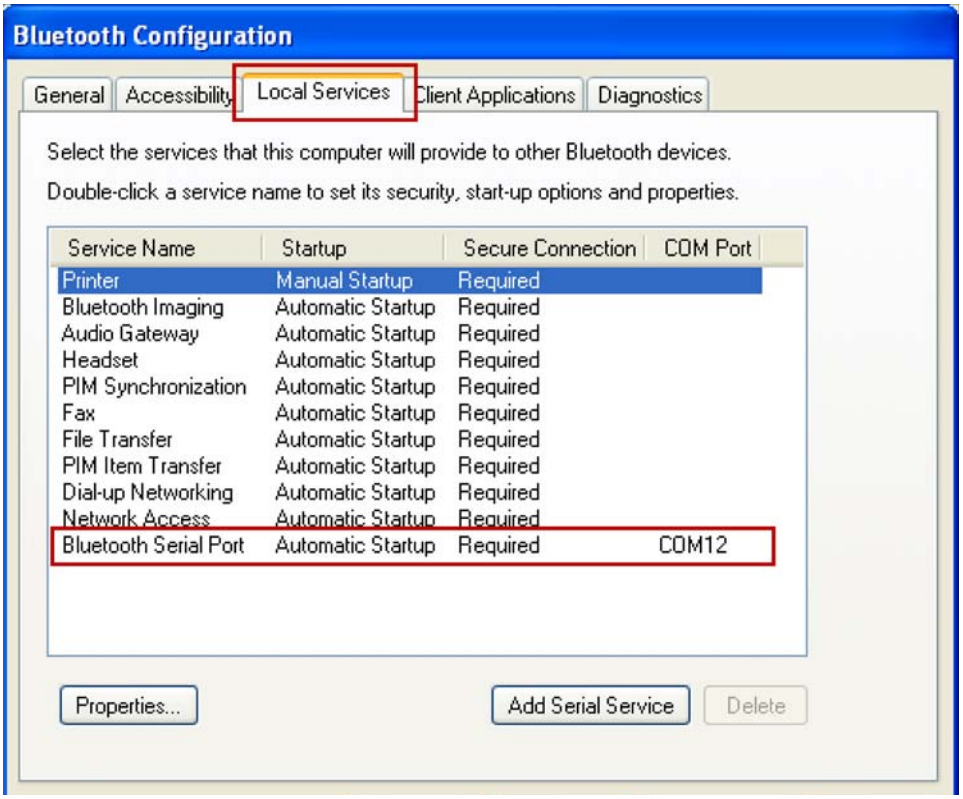


7. Click on the message and check **Always allow this device to access this service**, then click **OK**.

8. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC. To check the COM Port connection, click to **View or modify configuration** in the **My Bluetooth Places** window.



9. Select the **Local Services** tab. The **Bluetooth Serial Port** entry lists the connected COM Port for the reader in SPP Master mode.

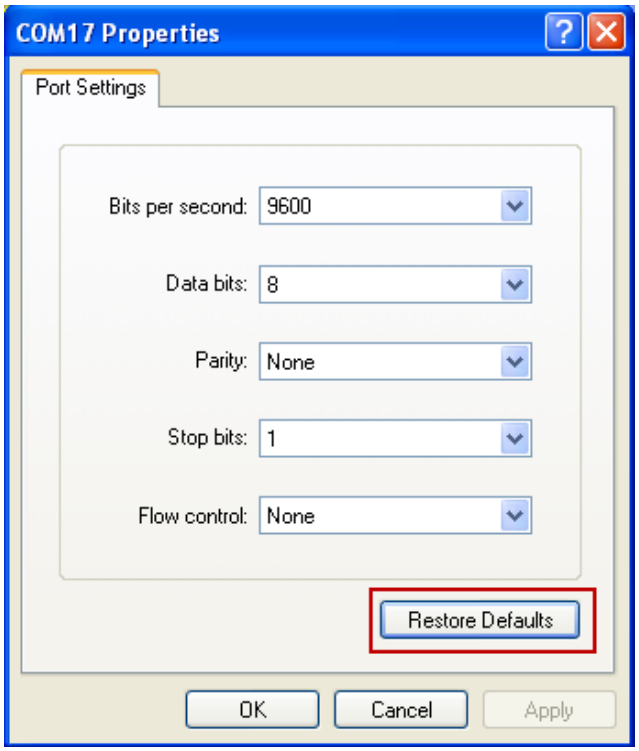


Testing the “Master” Connection

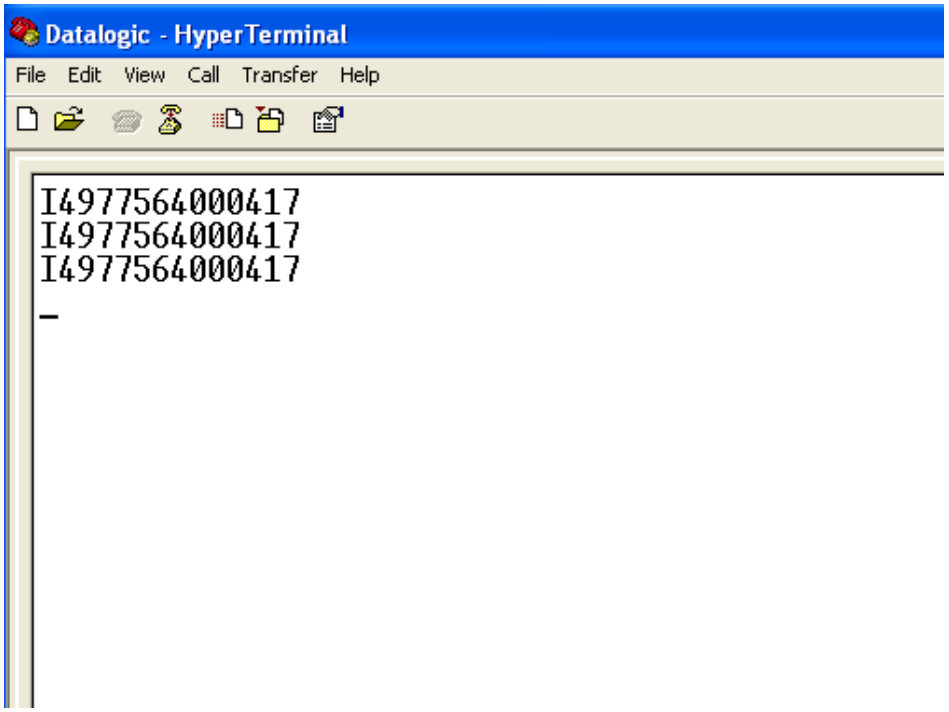
1. To test the connection, on the PC go to **Start > Programs > Accessories > Communications**, and open HyperTerminal to set up a serial connection.
2. The **New Connection** dialog will open. Enter a name in the **Connection Description** window, then click **OK**.

3. In the **Connect using** field, select the connected COM port and click **OK** to continue.

4. Select **Restore Defaults** for COM Port Properties.



5. Now the user can read bar code labels and verify that the data appears in the PC's Terminal window.



HID Profile

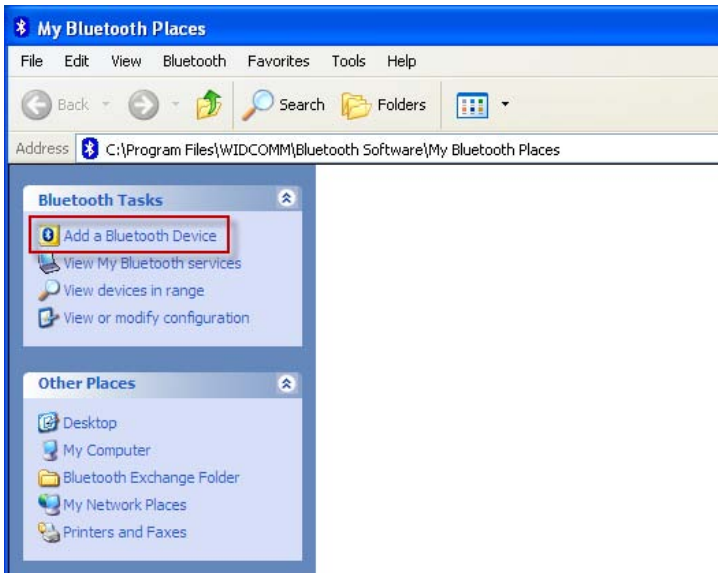
1. To configure the reader to work in HID Profile, scan the label below:

HID Profile

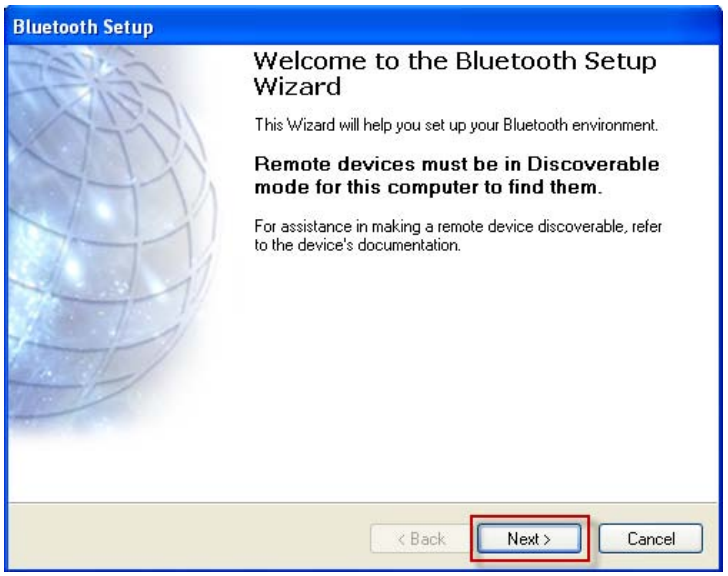
2. Scan the label below to configure the reader to work using the Variable PIN Code feature.

Variable PIN Code

3. From your PC's system tray, click on the Bluetooth icon to open the **My Bluetooth Places** window. Click **Add a Bluetooth Device** to search for Bluetooth devices.



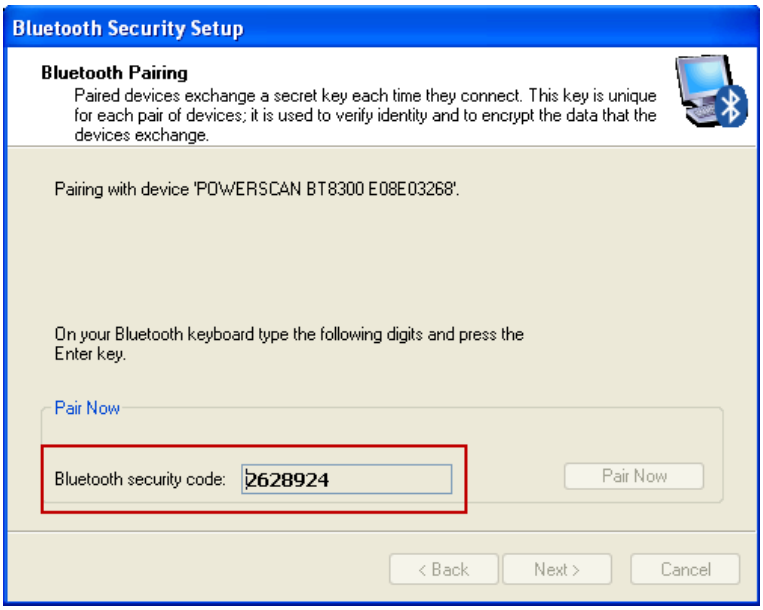
4. Click Next to continue.



5. After a few seconds, a window will appear showing all Bluetooth devices within radio range. Select the reader you want to connect with.

Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.

6. The next window will display a PIN Code to be used for the connection. A beep will be sounded, which indicates the reader is waiting for an alpha-numeric entry.

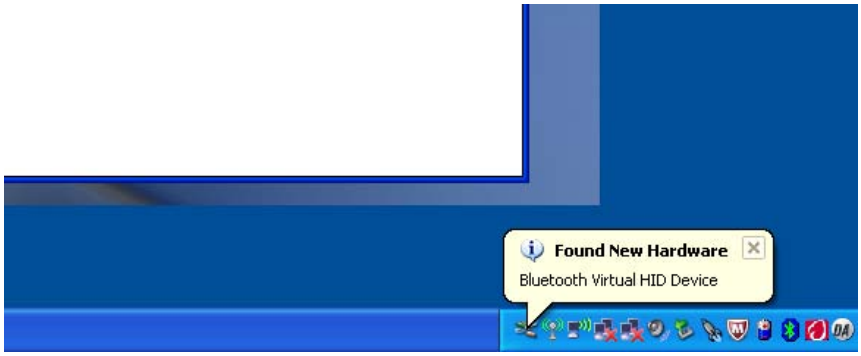


There are two ways to enter the PIN Code using the reader:

a. **Keypad** (for PowerScan BT8300 16-key only): type the PIN Code on the reader's keypad, ending with the **Enter** key.

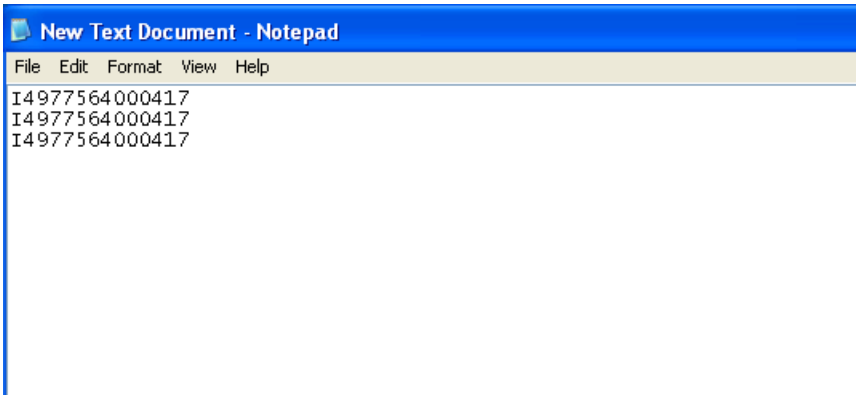
b. **Scanning**: Using the reader, scan the bar codes from the Numeric Keypad section of this guide, corresponding with the required PIN Code digits, then scan the **Exit and Save** configuration label.

7. Wait as the Bluetooth device connects to the reader.



8. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC.

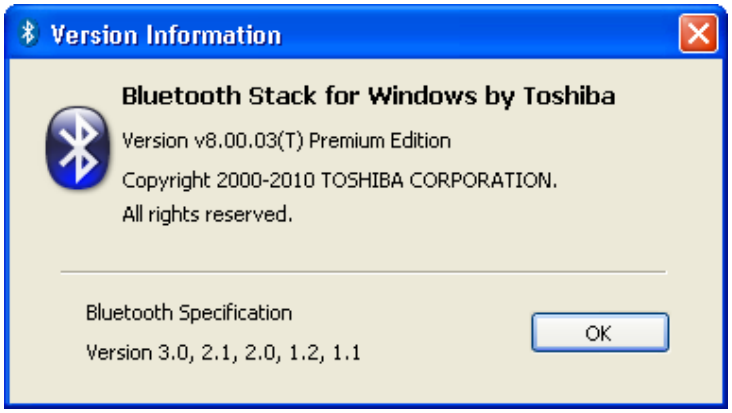
9. Now the user can read bar code labels and verify the data can be observed in Notepad on the PC.



Toshiba®

Toshiba has created its own Bluetooth stack for use with Microsoft Windows®. Toshiba licenses their stack to other original equipment manufacturers (OEMs) and has shipped with several manufacturers' laptops. The Toshiba stack is also available with certain non-OEM Bluetooth accessories such as USB Bluetooth devices and PCMCIA cards from various vendors. It supports Windows 98SE/ME/2000/XP/Vista/Windows7 operating systems.

The examples in this guide represent Bluetooth Stack for Windows by Toshiba, Version v8.00.03 (T) Premium Edition.

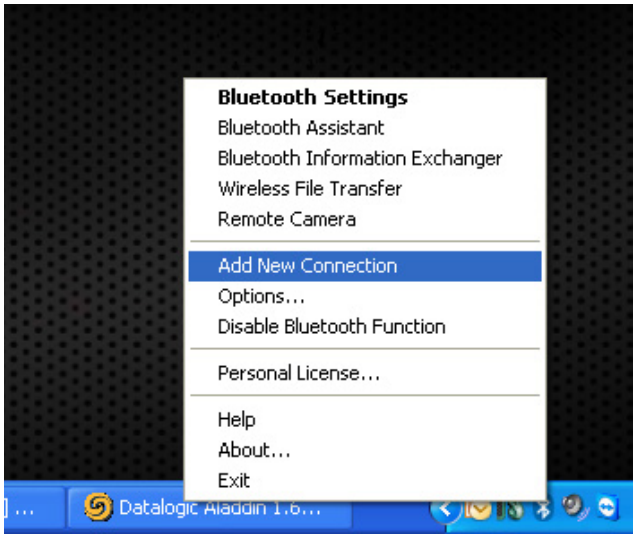


Serial Port Profile (Slave)

1. Read the following bar code to set the reader to Serial Port Profile (Slave) mode.

Serial Port Profile (Slave)

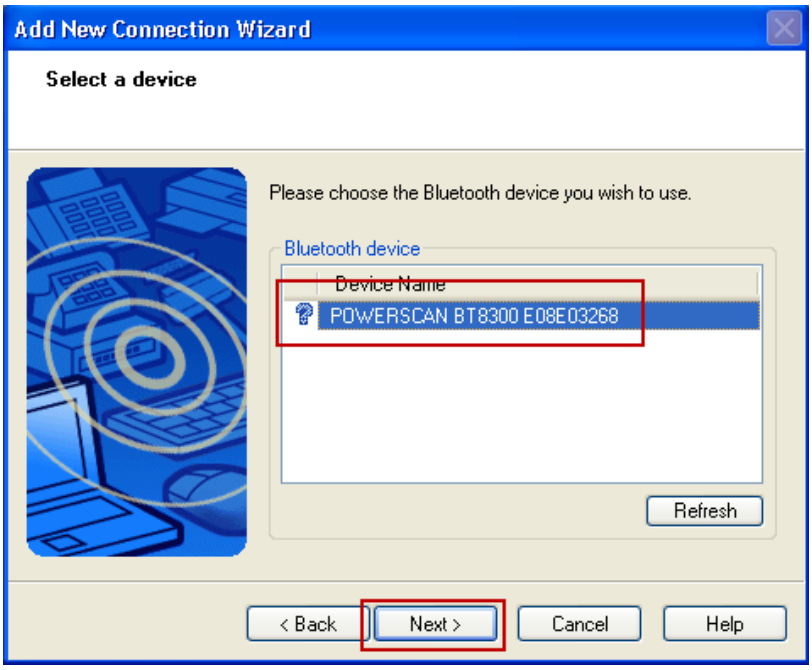
2. From your PC's system tray, right-click on the Bluetooth icon and select **Add New Connection**.



3. Wait as the system searches for Bluetooth devices.

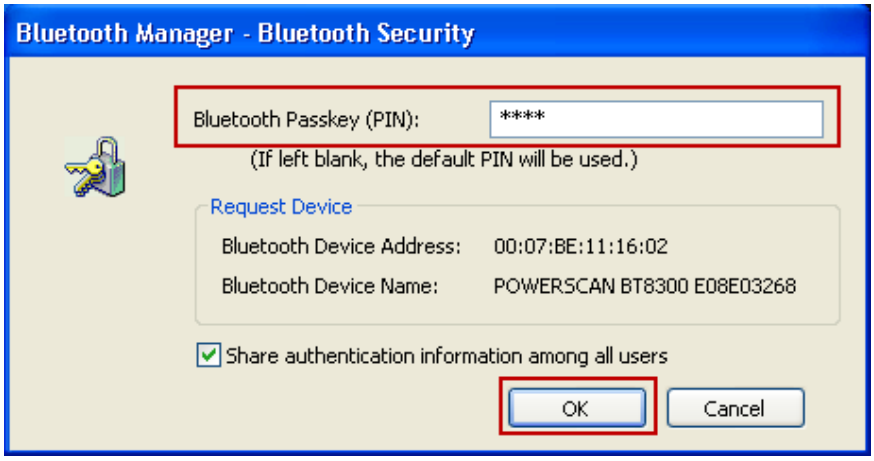
4. After a few seconds, a window will appear showing all Bluetooth devices within radio range. Select the PowerScan BT8300 reader you want to connect with.

Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.



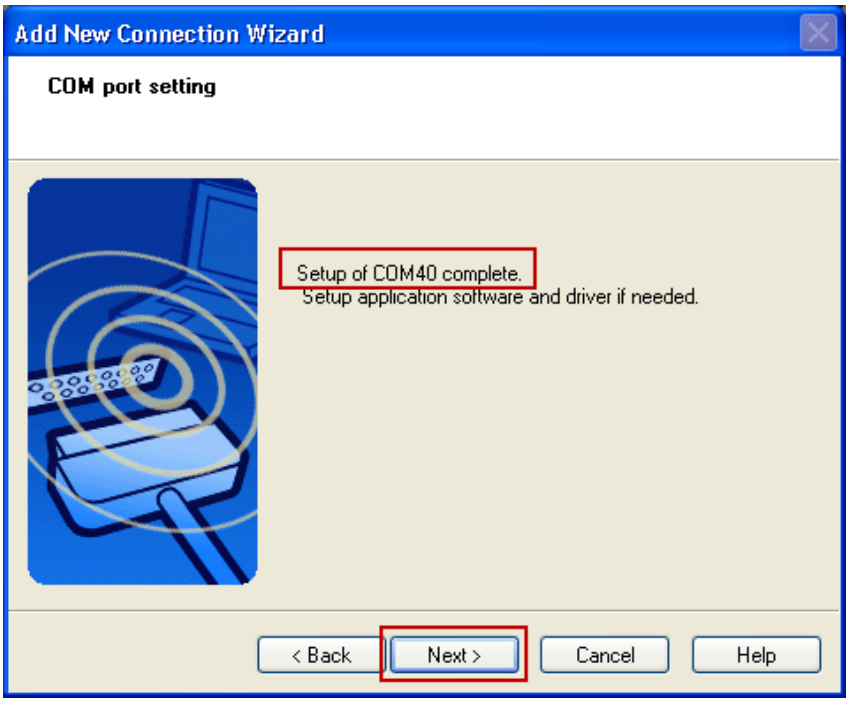
5. Wait as the PC attempts to connect with the reader.

6. Type the **Default Pin Code: 1234**. Click **OK** to continue.

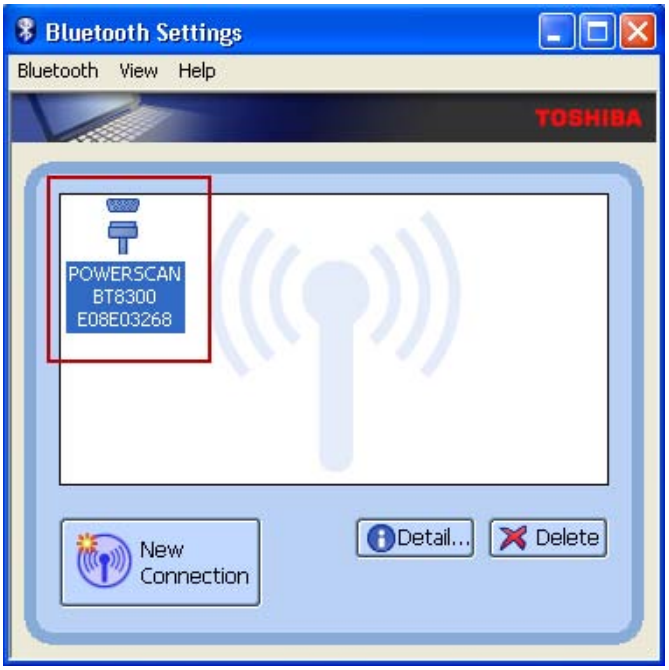


The Pin Code can be changed for additional security. See the PRG for more information.

7. The COM port setting window will appear, showing the COM port used for the connection in Serial Port Profile (Slave) mode. Click **Next** to finish.



8. Some beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC. The reader will be displayed in the **Bluetooth Settings** window.

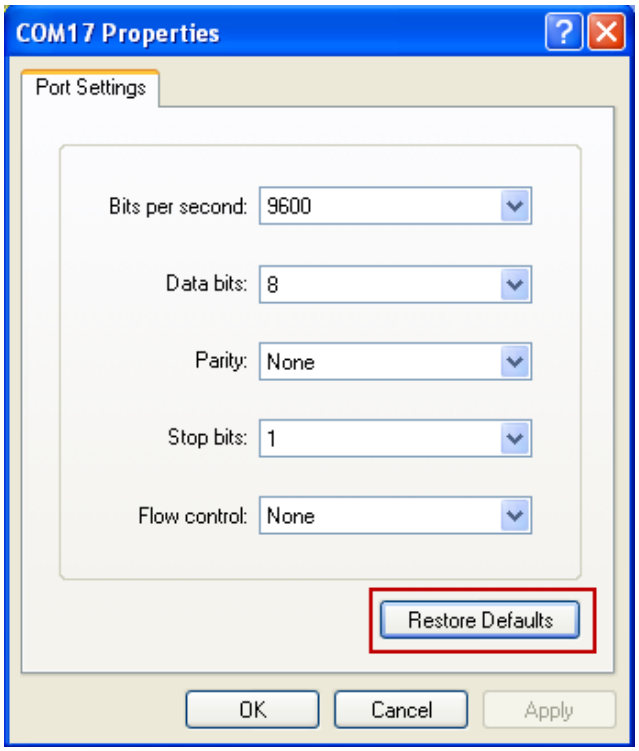


Testing the “Slave” Connection

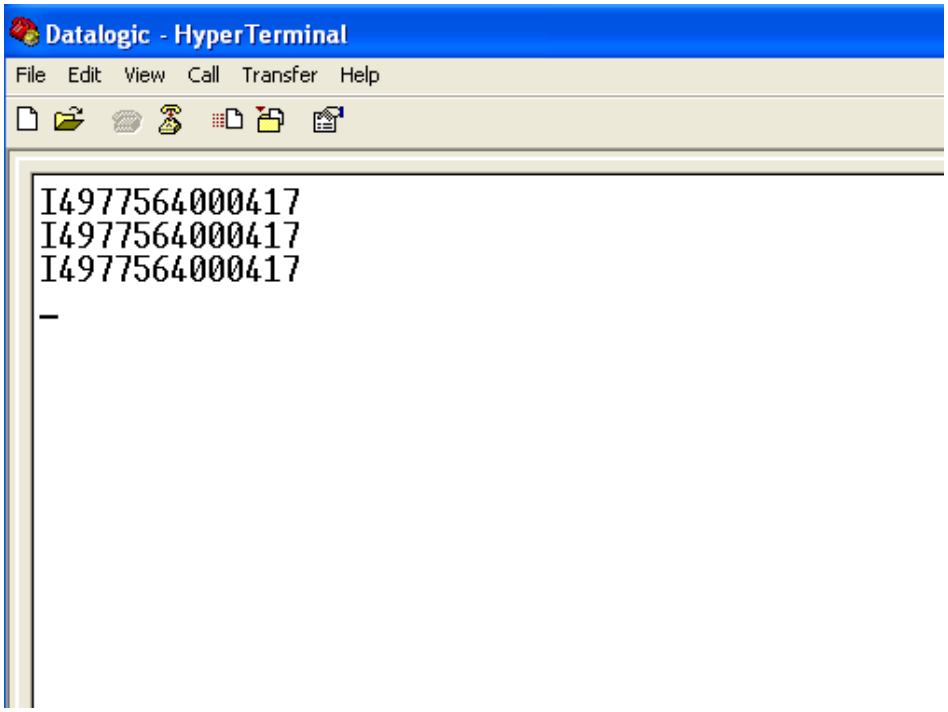
1. To test the connection, on the PC go to **Start > Programs > Accessories > Communications**, and open HyperTerminal to set up a serial connection.
2. The **New Connection** dialog will open. Enter a name in the **Connection Description** window, then click **OK**.

3. In the **Connect using** field, select the connected COM port and click **OK** to continue.

4. Select **Restore Defaults** for COM Port Properties.



5. The user can now read bar code labels, and verify that the data will appear in the Terminal window on the PC.



Serial Port Profile (Master)

Read the bar code below to configure the reader in Serial Port Profile (Master) mode.

Serial Port Profile (Master)

1. Create a label to link the reader to the PC Bluetooth connection. The label must be Code 128 symbology and contain the PC Bluetooth address with the following formatting:

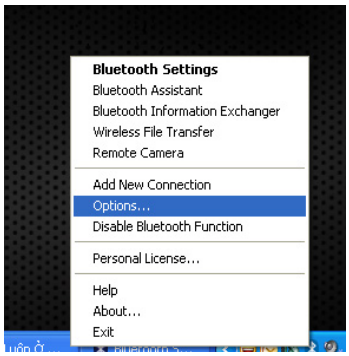
   $+QS<12hex characters>$-

   The label should look similar to this example:

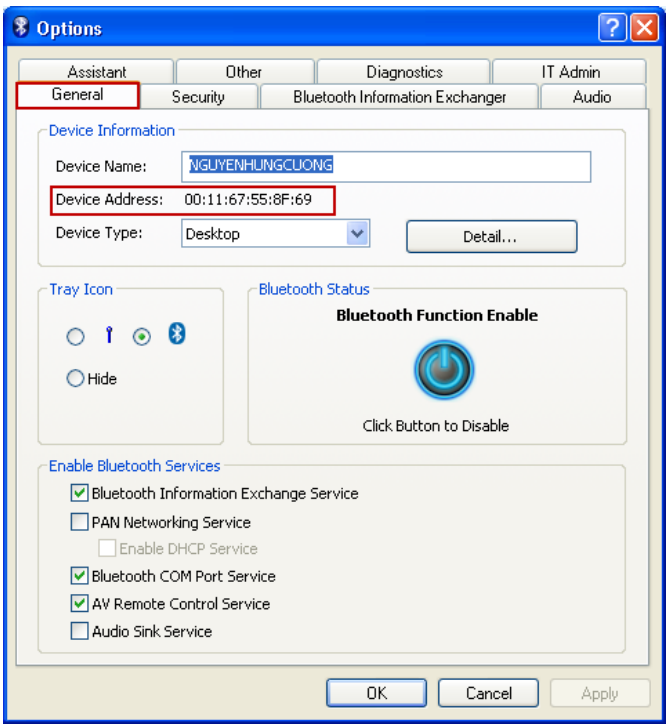
   Linking Label Demo in Serial Port Profile (Master)

   $+QS001167558F69$-

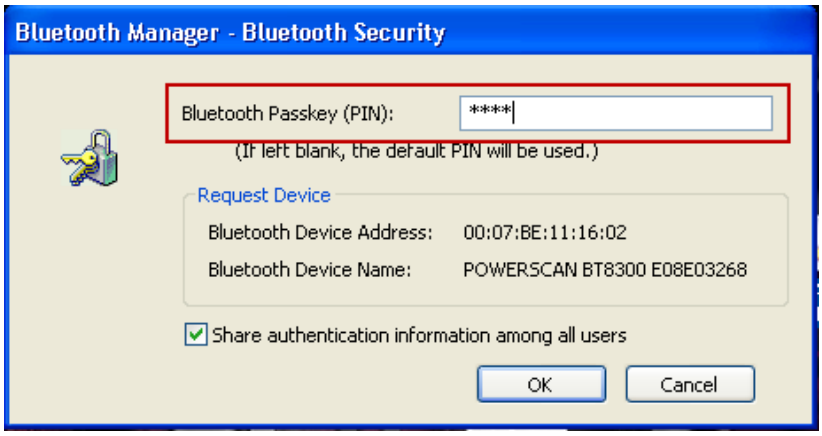
2. To learn the Bluetooth Address of your PC, click the Bluetooth icon in the system tray and select **Options**.



3. Select the **General** tab to view the 12-hex character Bluetooth '**Device Address**.'

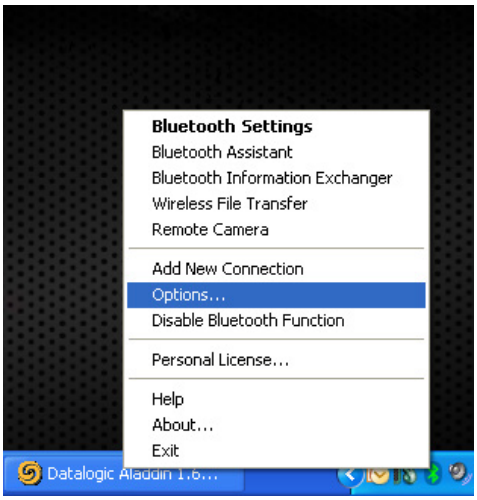


4. Using the reader, scan the label you created above to initiate the connection to the PC
5. In the **Bluetooth Security** window, input the **Default Pin Code = 1234**. Click **OK** to continue.

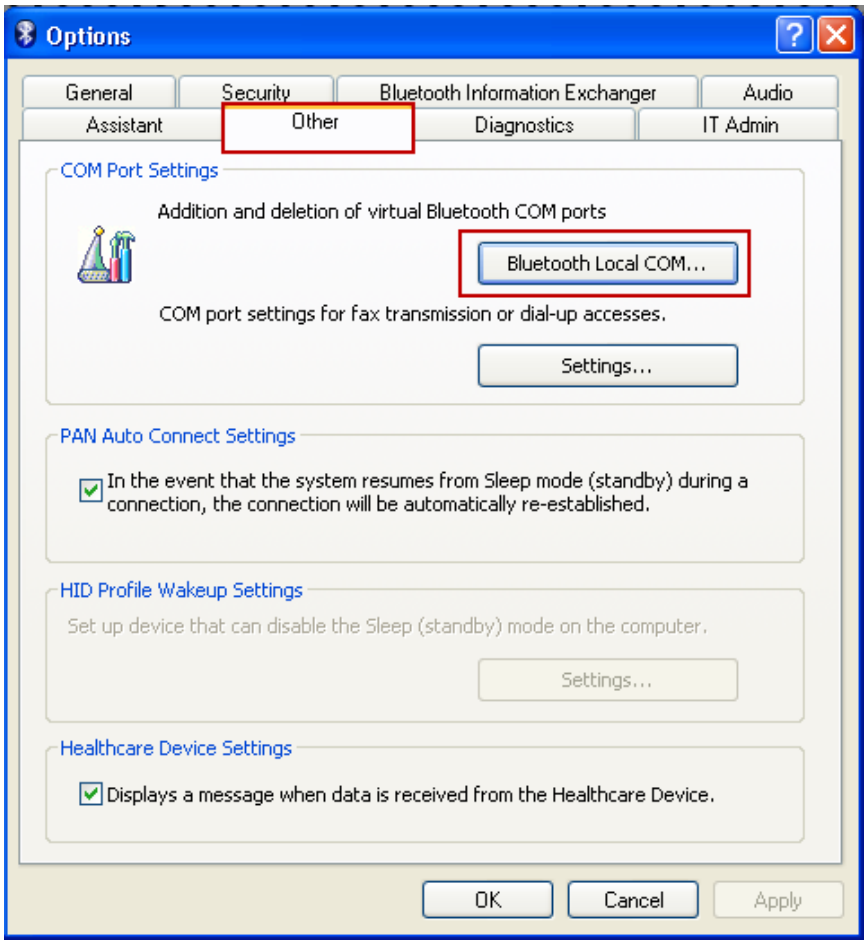


The Pin Code can be changed for additional security. See the PRG for more information.

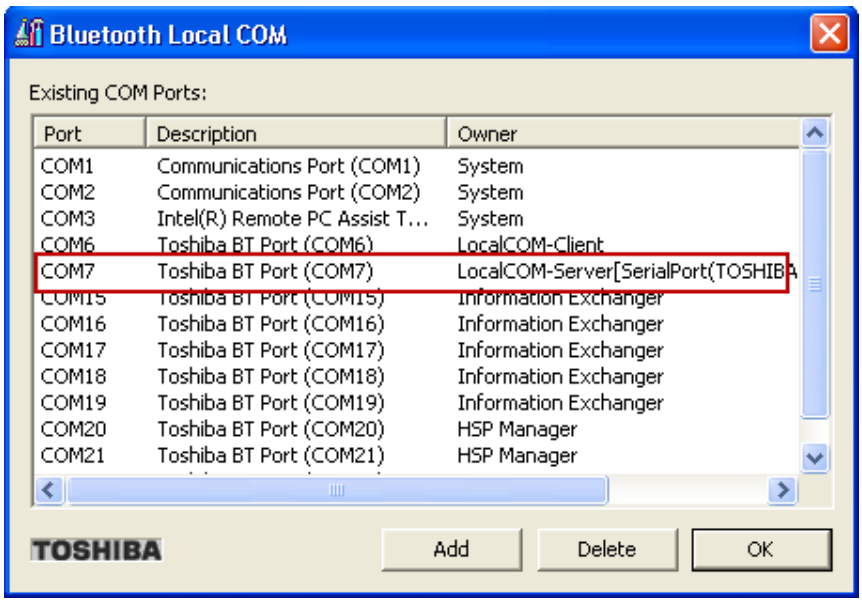
6. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC.
7. To check the COM Port connection, right-click on the PowerScan BT8300 icon and select Options.



Select the **Other** tab, then click the **Bluetooth Local COM** button.



The COM port used to connect the reader in SPP Profile (Master) mode is shown in the Local COM window.



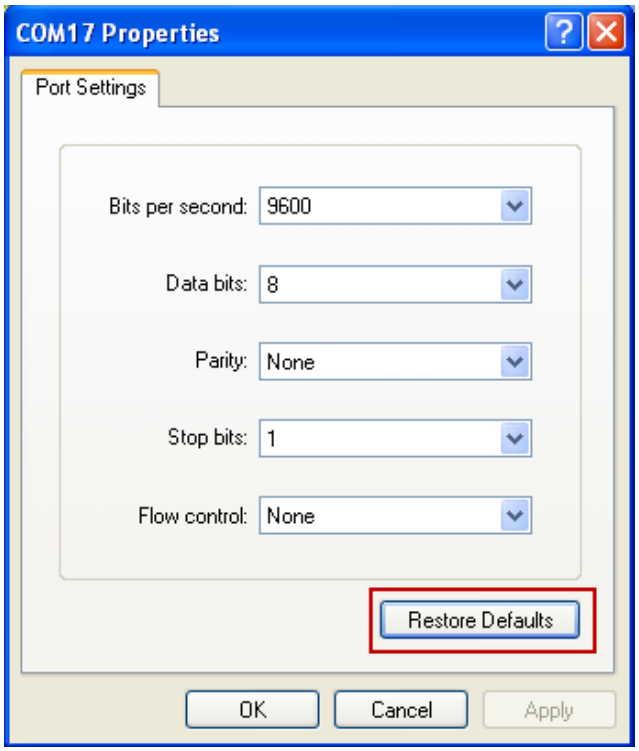
Testing the "Master" Connection

1. To test the connection, on the PC go to **Start > Programs > Accessories > Communications**, and open HyperTerminal to set up a serial connection.
2. The **New Connection** dialog will open. Enter a name in the **Connection Description** window, then click **OK**.

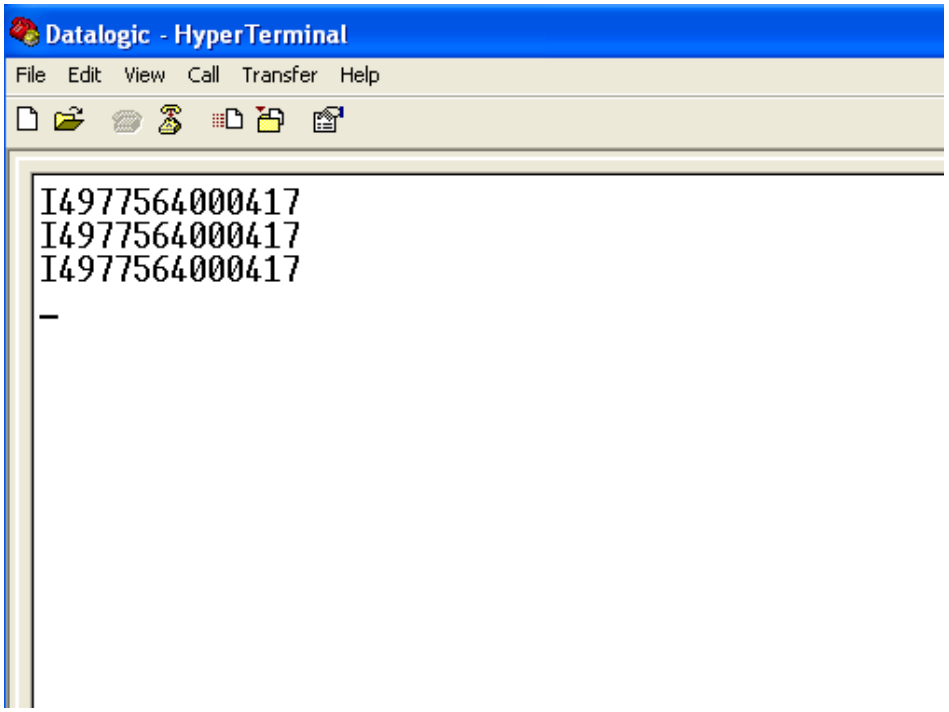
3. In the **Connect using** field, select the connected COM port and click **OK** to continue.

4. Select **Restore Defaults** for COM Port Properties

5. Select **Restore Defaults** for COM Port Properties.



6. The user can now read bar code labels, and verify that the data will appear in the Terminal window on the PC.



HID Profile

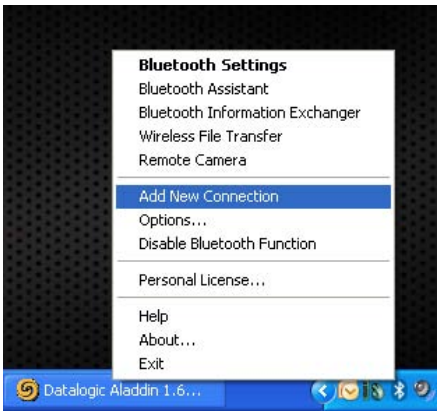
1. To configure the reader to work in HID Profile, scan the label below:

HID Profile

2. Scan the label below to configure the reader to work using the Variable PIN Code feature.

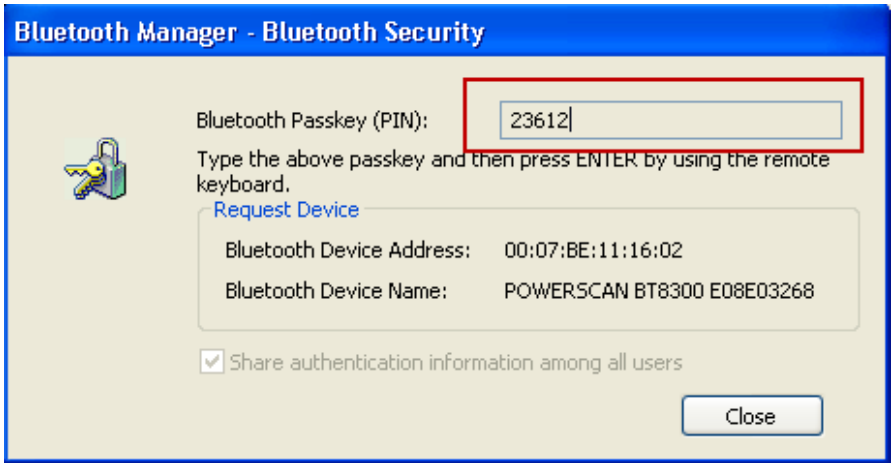
Variable PIN Code

3. From your PC's system tray, right-click on the Bluetooth icon and select **Add New Connection**.



4. Wait for the PC to search for Bluetooth devices.

5. The next window will display a PIN Code to be used for the connection. A beep will be sounded, which indicates the reader is waiting for an alpha-numeric entry.

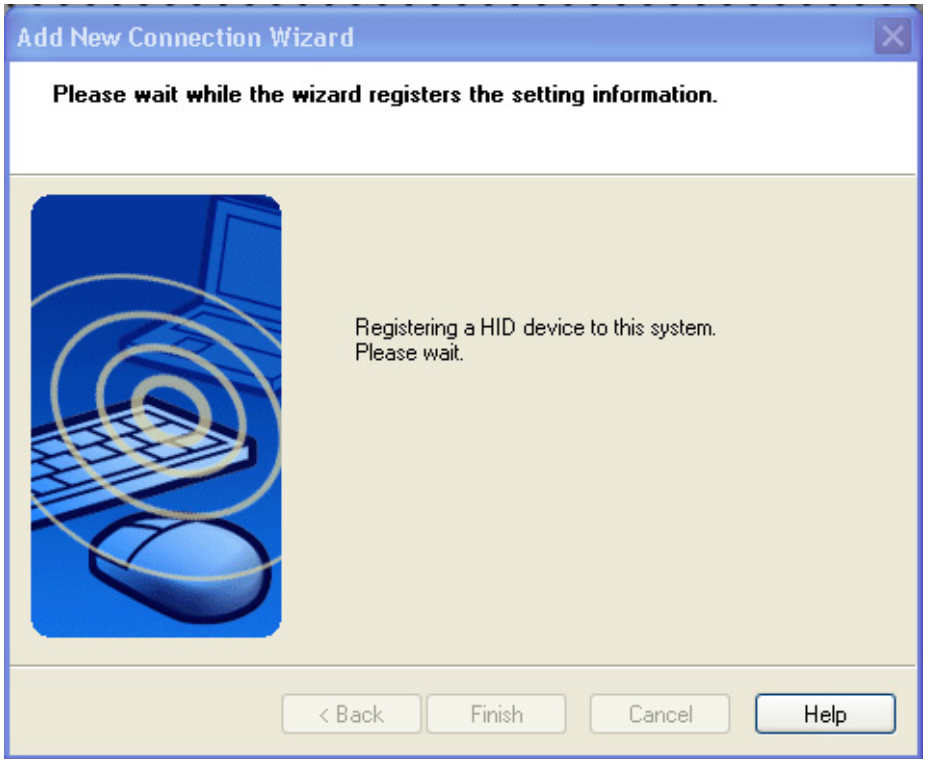


There are two ways to enter the PIN Code using the reader:

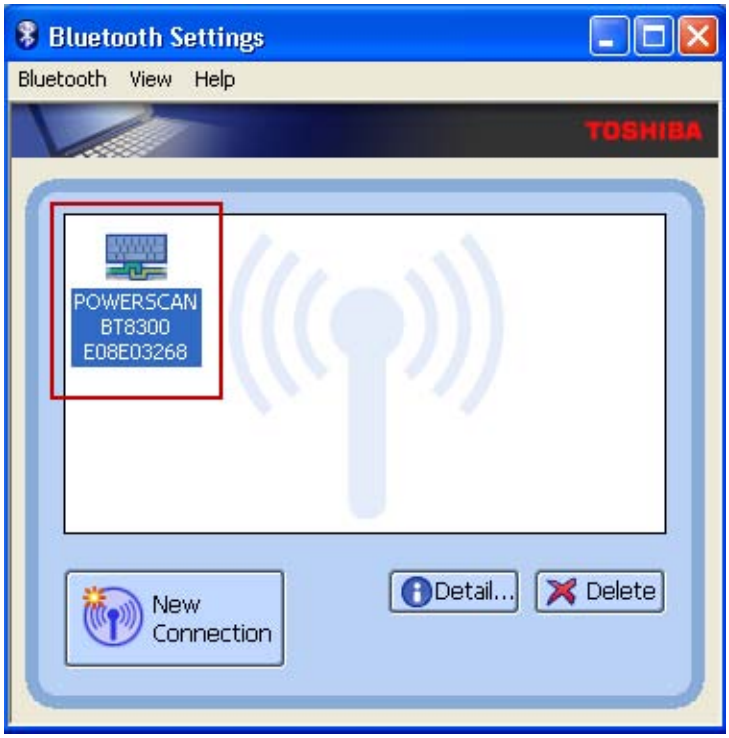
a. **Keypad** (for PowerScan BT8300 16-key only): type the PIN Code on the reader's keypad, ending with the **Enter** key.

b. **Scanning**: Using the reader, scan the bar codes from the Numeric Keypad section of this guide, corresponding with the required PIN Code digits, then scan the **Exit and Save** configuration label.

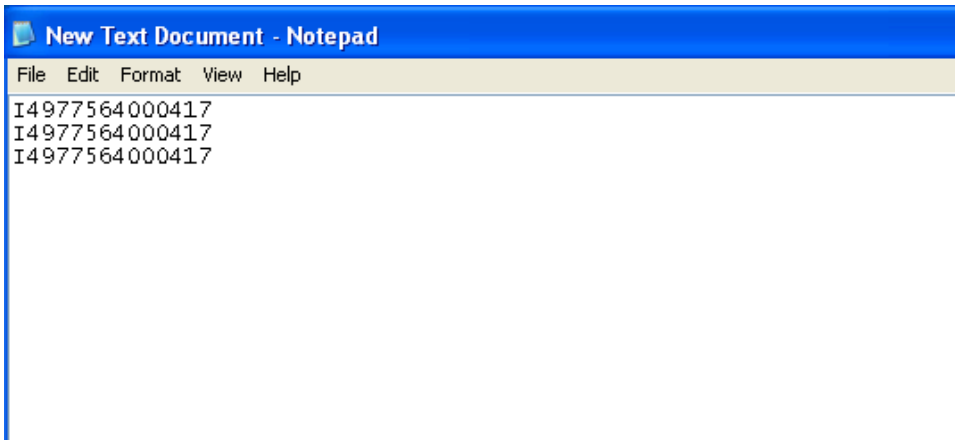
6. Wait as the Bluetooth device connects to the reader.



7. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC.



8. Now the user can read bar code labels and verify the data can be observed in Notepad on the PC.



NOTES

BlueSoleil™

BlueSoleil™ is a product of IVT Corporation, which produces stacks for embedded devices and desktop systems. BlueSoleil 8 is one of the most popular, professional Windows-based Bluetooth applications and is able to fulfill demands of integrating a diverse array of Bluetooth-enabled digital devices such as mobile phones, headsets, printers, keyboards and so on.

BlueSoleil 8 works on Windows XP, Windows Vista and Windows 7 platforms and functions with most main chipsets, supporting many types of Bluetooth laptops.

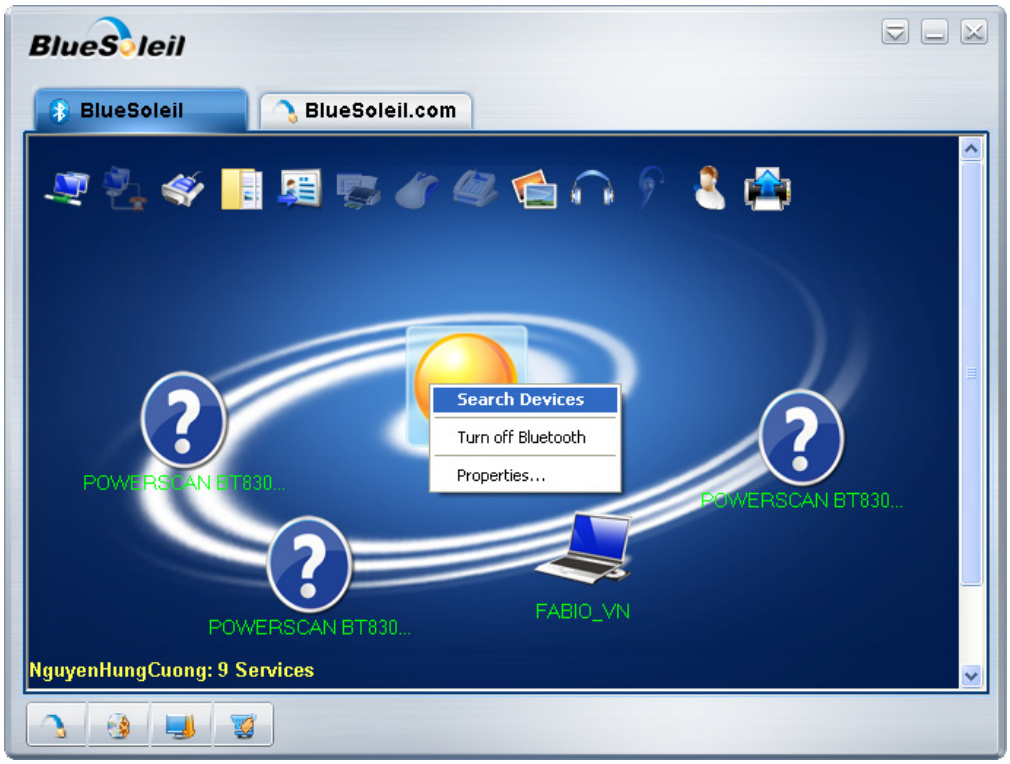
Serial Port Profile (Slave)

1. Read the following bar code to set the reader to Serial Port Profile (Slave) mode.

Serial Port Profile (Slave)

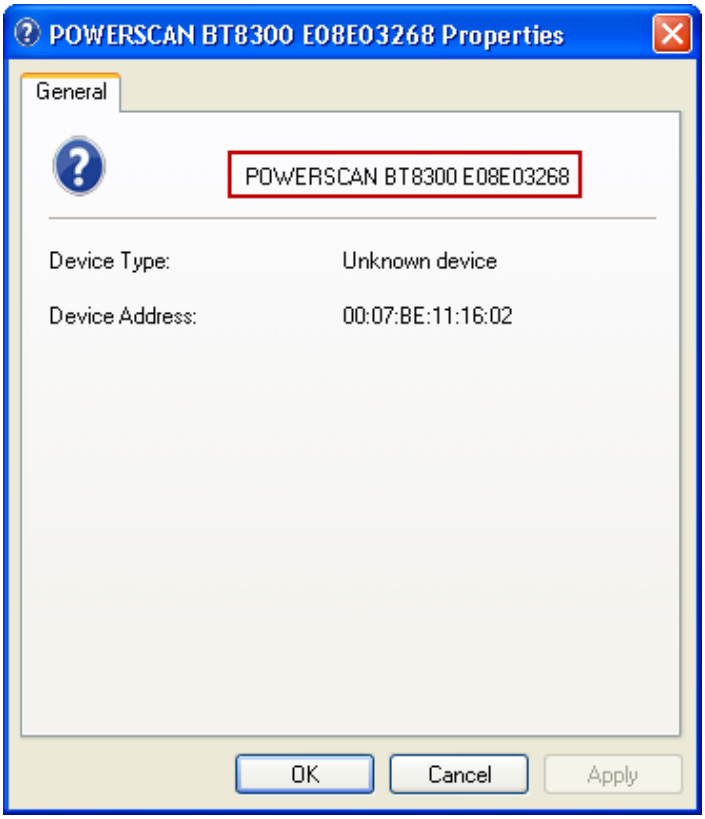
2. Open the **BlueSoleil** program with Classic View.

3. Mouse-click on the BlueSoleil window and choose "**Search Devices**" or press "**F5**" to search for Bluetooth devices.

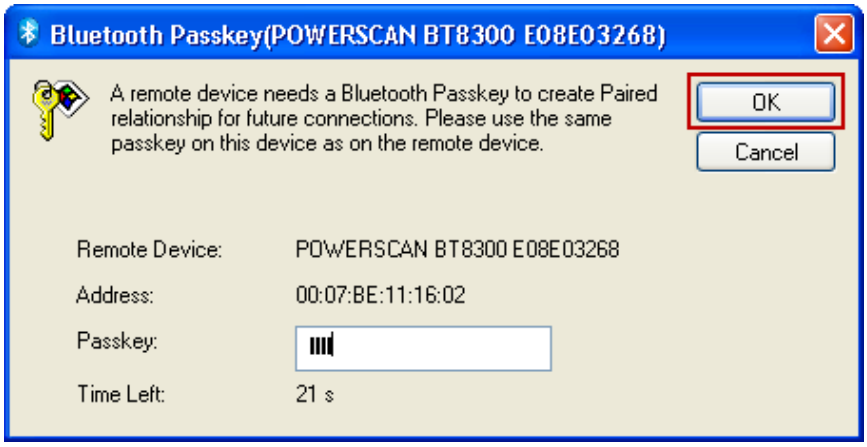


4. After a few seconds, a window will appear showing all Bluetooth devices within radio range. Right-click on each device and choose **Properties** to know the Bluetooth-Friendly Name and Device Address.

Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.



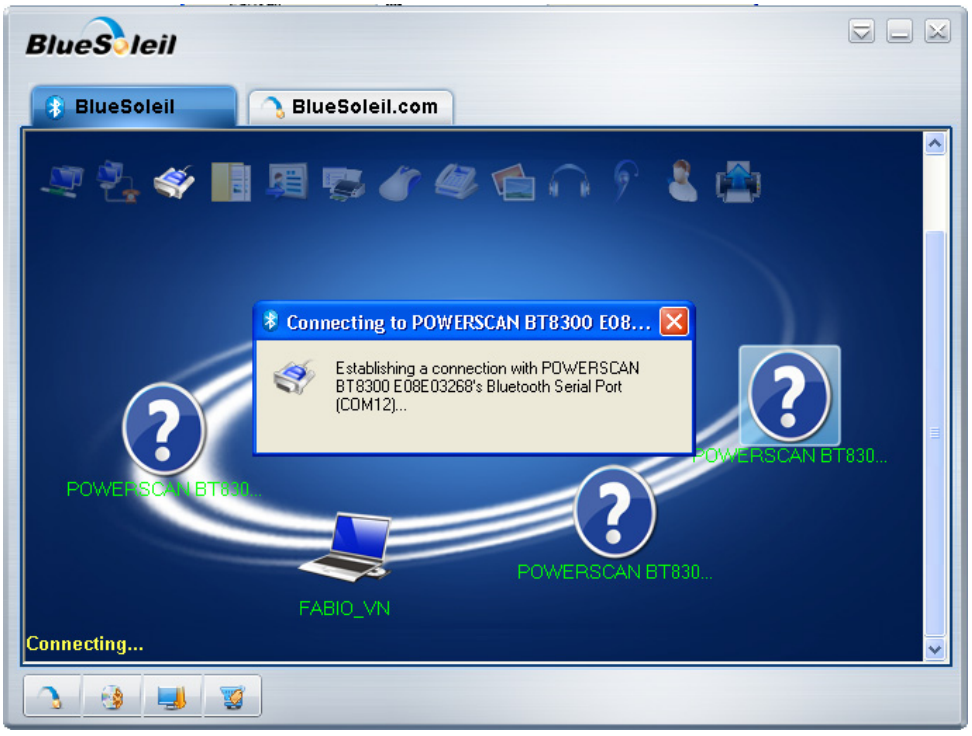
5. Double-click on the reader you want to connect with. Type the default **PIN code: 1234** and click **OK**.

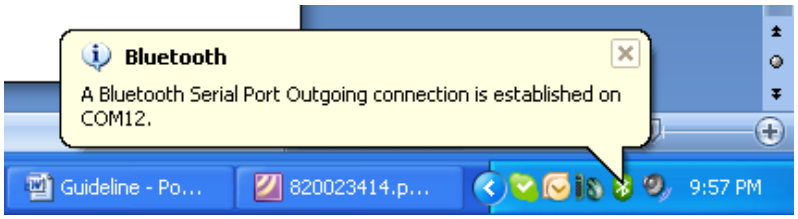


The Pin Code can be changed for additional security. See the PRG for more information.

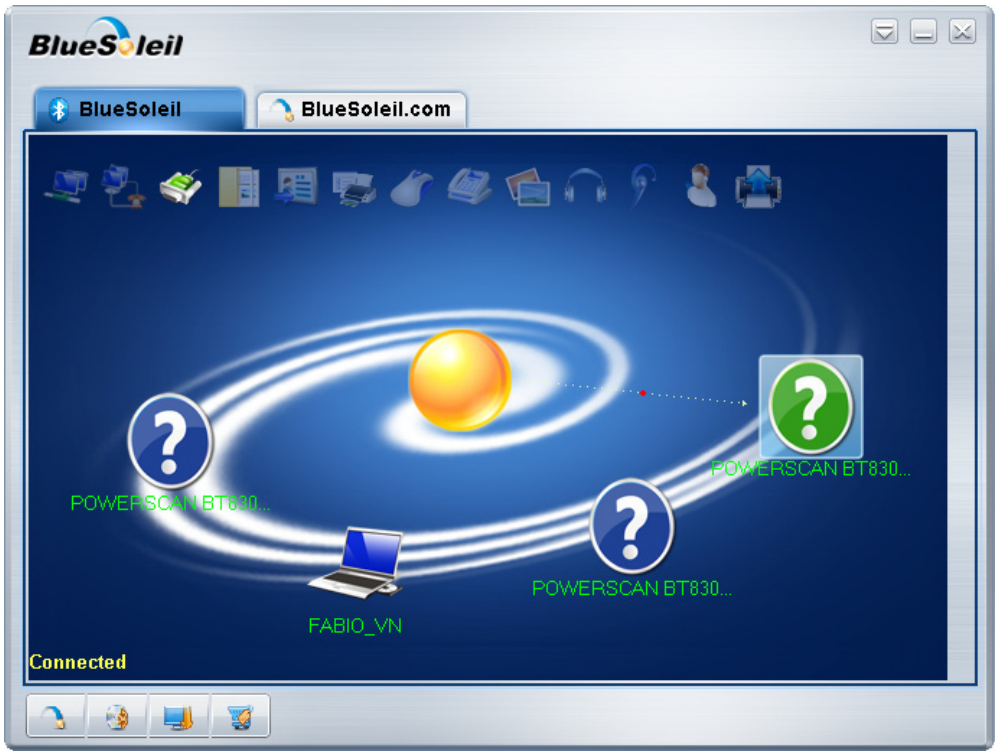
6. Double-click on the Bluetooth Serial Port icon to establish the connection.

7. Wait as your Bluetooth device connects to the reader.





8. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC.

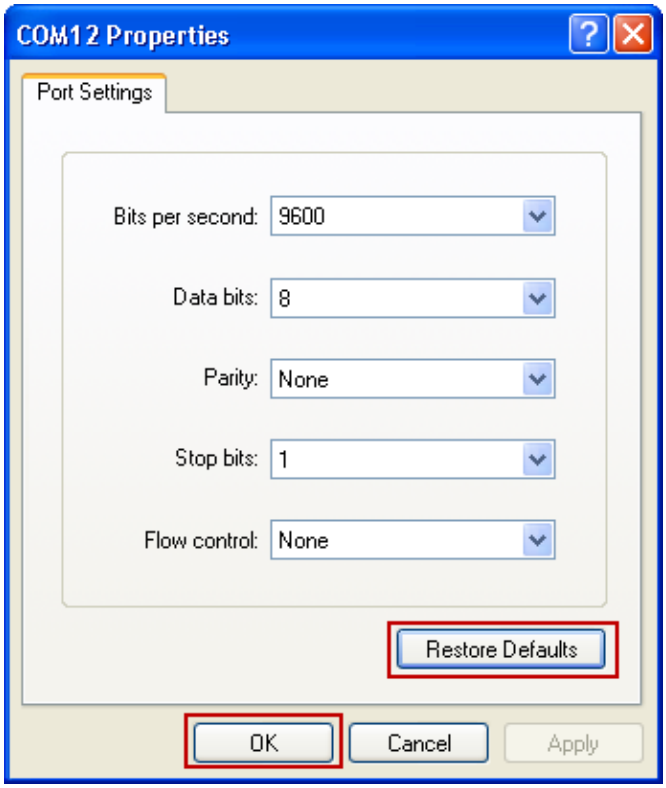


Testing the “Slave” Connection

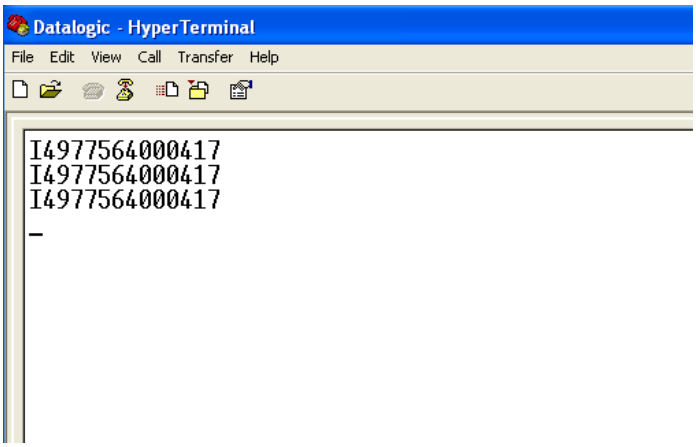
1. To test the connection, on the PC go to **Start > Programs > Accessories > Communications**, and open HyperTerminal to set up a serial connection.
2. The **New Connection** dialog will open. Enter a name in the **Connection Description** window, then click **OK**.

3. In the **Connect using** field, select the COM port shown in the notification screen when you completed the connection during the previous sequence. Click **OK** to continue.

4. Select **Restore Defaults** for COM Port Properties.



5. The user can now read bar code labels, and verify that the data will appear in the Terminal window on the PC.



Serial Port Profile (Master)

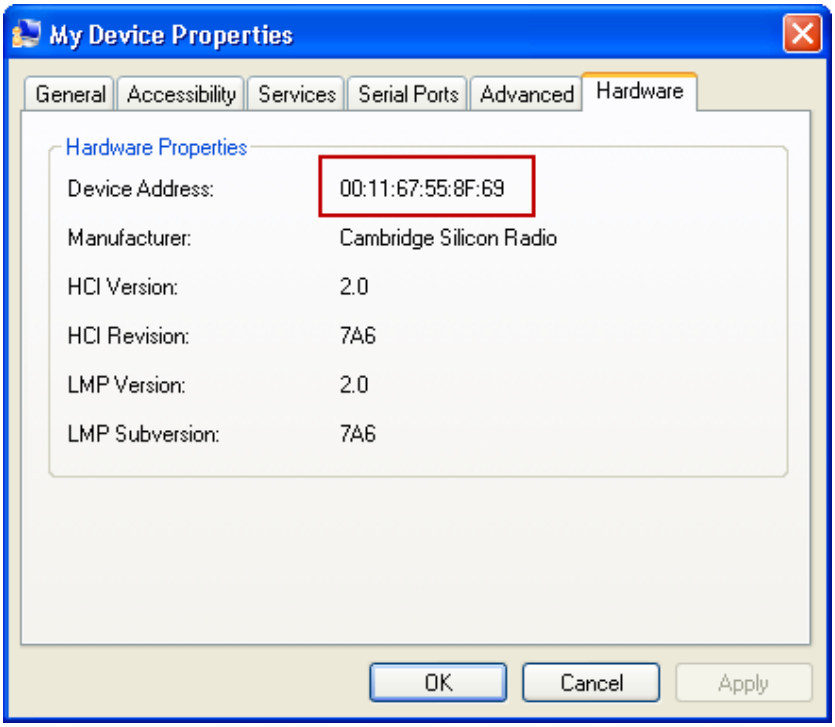
1. Read the bar code below to configure the reader in Serial Port Profile (Master) mode.

Serial Port Profile (Master)

2. Create a label to link the reader to the PC Bluetooth connection. The label must be Code 128 symbology and contain the PC Bluetooth address with the following formatting:

$+QS<12hex characters>$-

The address is usually shown in the **Hardware** tab of the **My Device Properties** window.



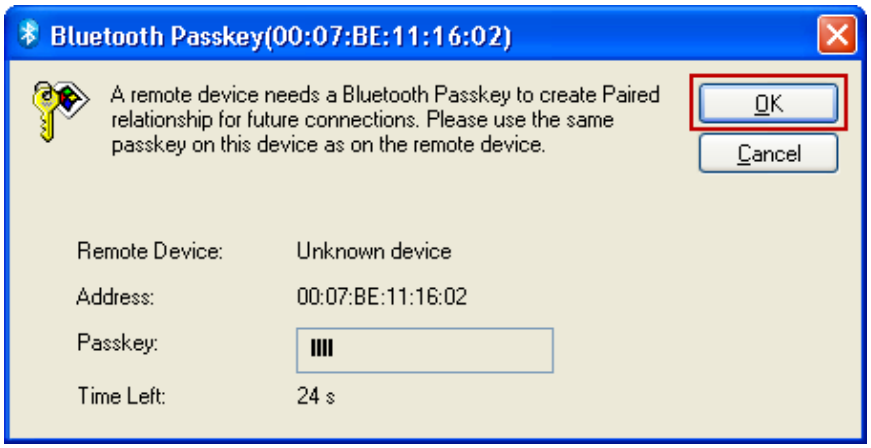
The label should look similar to this example:

Linking Label Demo in Serial Port Profile (Master)

$+QS001167558F69$-

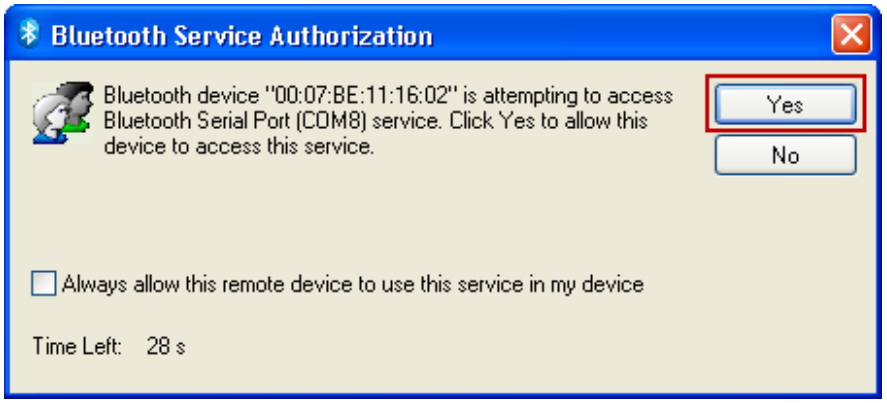
3. Open the **BlueSoleil** program and use the reader to scan the label you created above to initiate the connection with the PC.

4. An alert window will appear, showing that a remote device wants to connect to the PC. Input the **Default Pin Code = 1234** and click **OK** to continue.

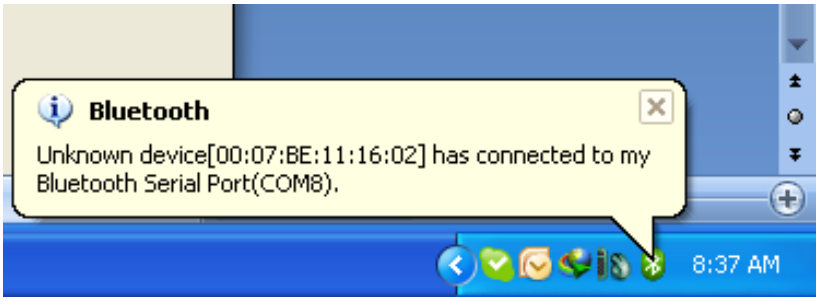


The Pin Code can be changed for additional security. See the PRG for more information.

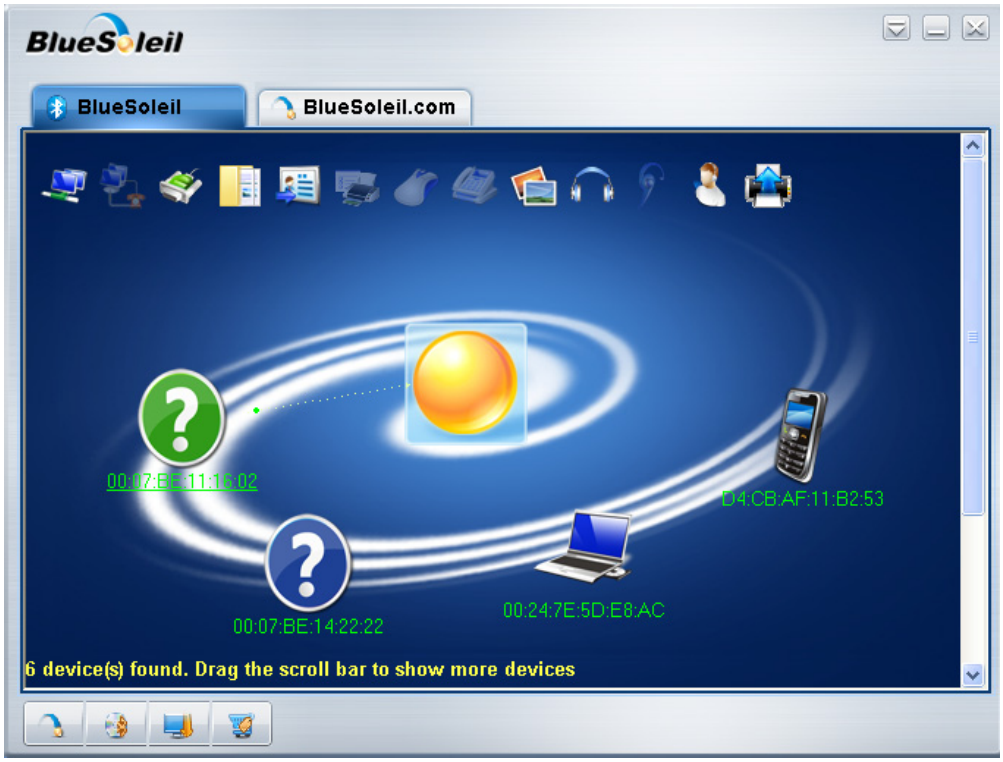
5. Click **Yes** to allow the reader to connect to the PC.



An alert message will appear in the PC's taskbar system tray, showing that a device has connected to the PC.



6. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC.

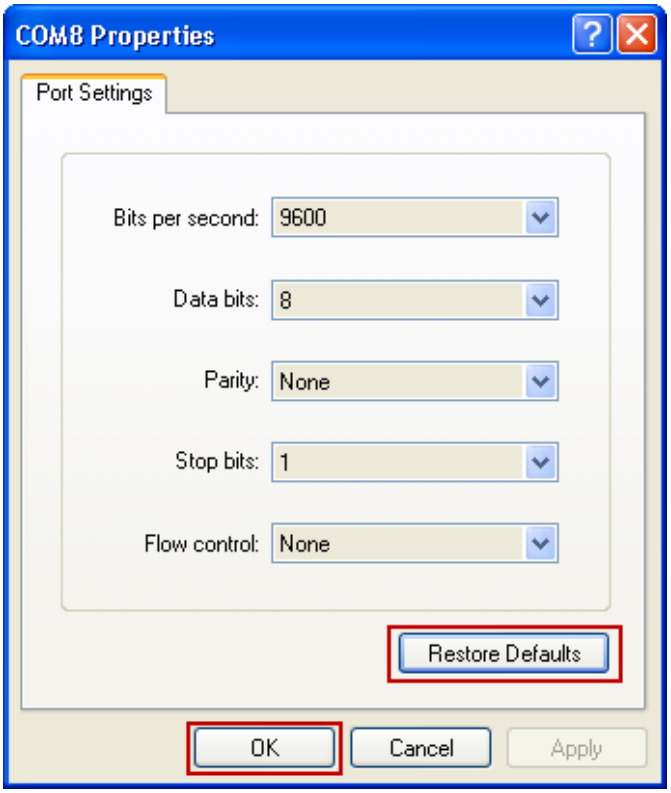


Testing the "Master" Connection

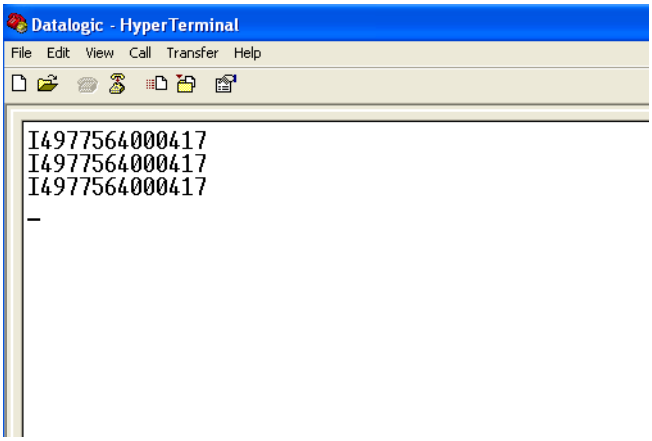
1. To test the connection, on the PC go to **Start > Programs > Accessories > Communications**, and open HyperTerminal to set up a serial connection.
2. The **New Connection** dialog will open. Enter a name in the **Connection Description** window, then click **OK**.

3. In the **Connect using** field, select the COM port displayed in the notification screen when you completed the connection during the previous sequence. Click **OK** to continue.

4. Select **Restore Defaults** for COM Port Properties.



5. Now the user can read bar code labels and verify that the data appears in the PC's Terminal window.



HID Profile

1. To configure the reader to work in HID Profile, scan the label below:

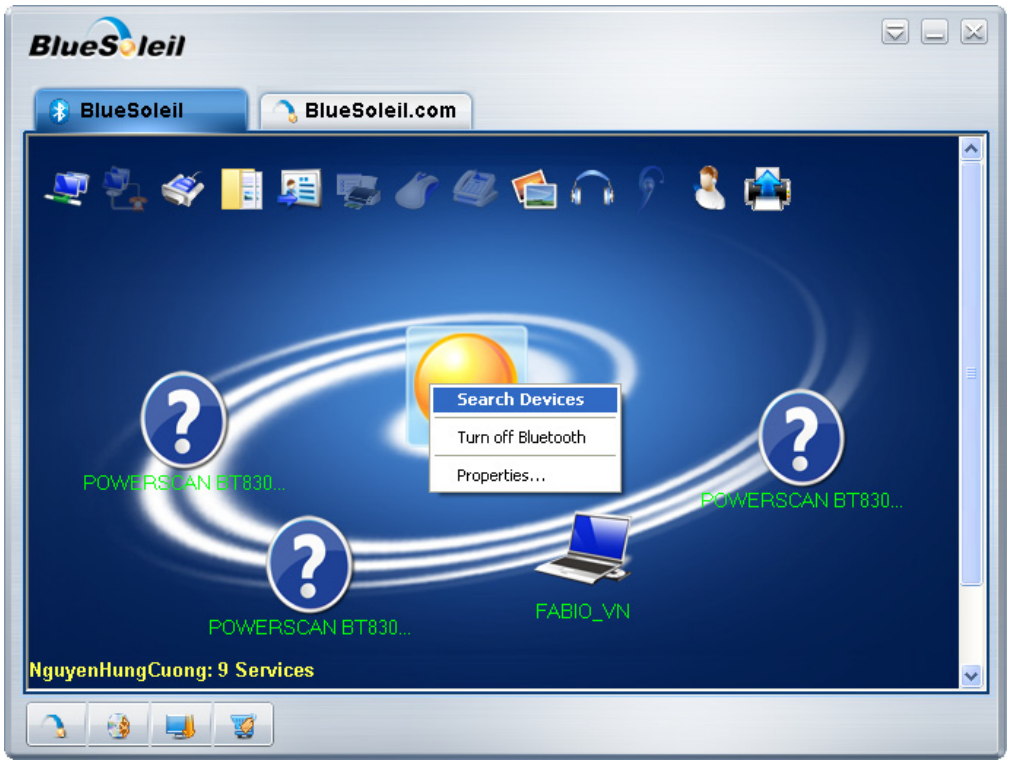
HID Profile

2. Scan the label below to configure the reader to work using the Variable PIN Code feature.

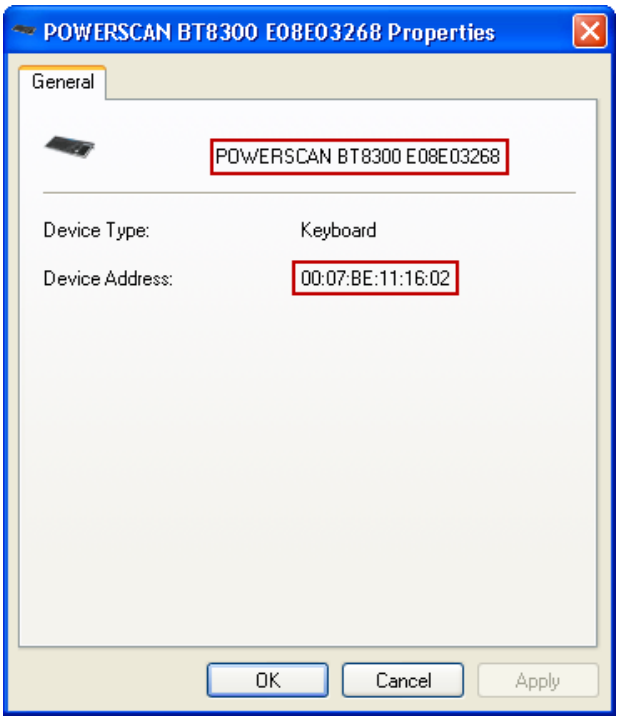
Variable PIN Code

3. Open the **BlueSoleil** program with Classic View

4. Mouse-click on the BlueSoleil window and choose "**Search Devices**" or press "**F5**" to search for Bluetooth devices.

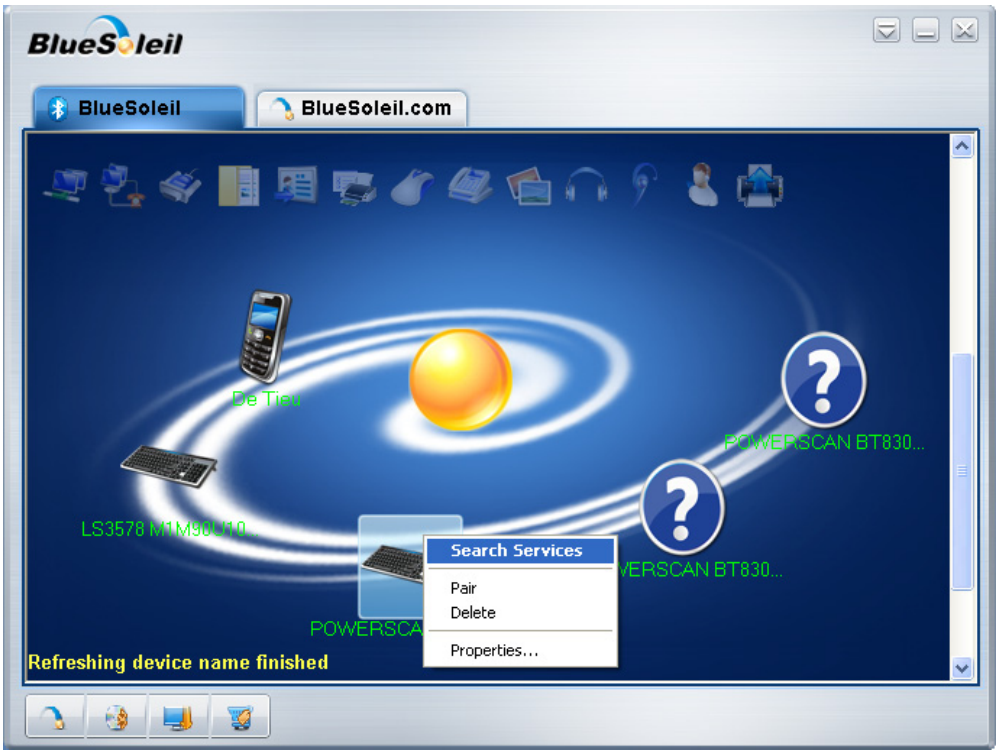


5. After a few seconds, a window will appear showing all Bluetooth devices within radio range. Right-click on each device and choose **Properties** to know the Bluetooth-Friendly Name and Device Address.

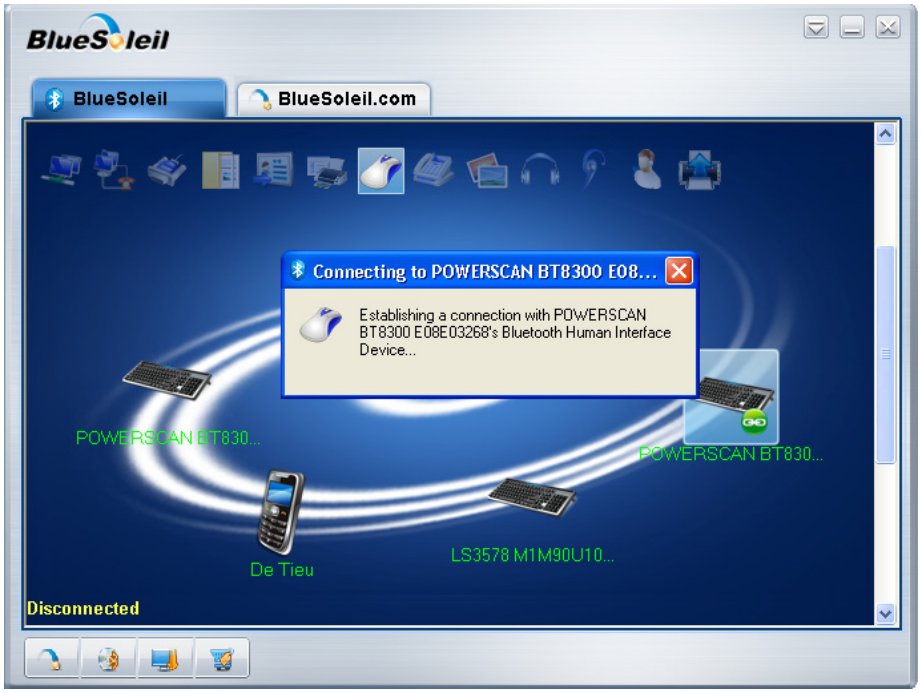


Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.

6. Right-click on the PowerScan BT8300 and choose **Search Services**.



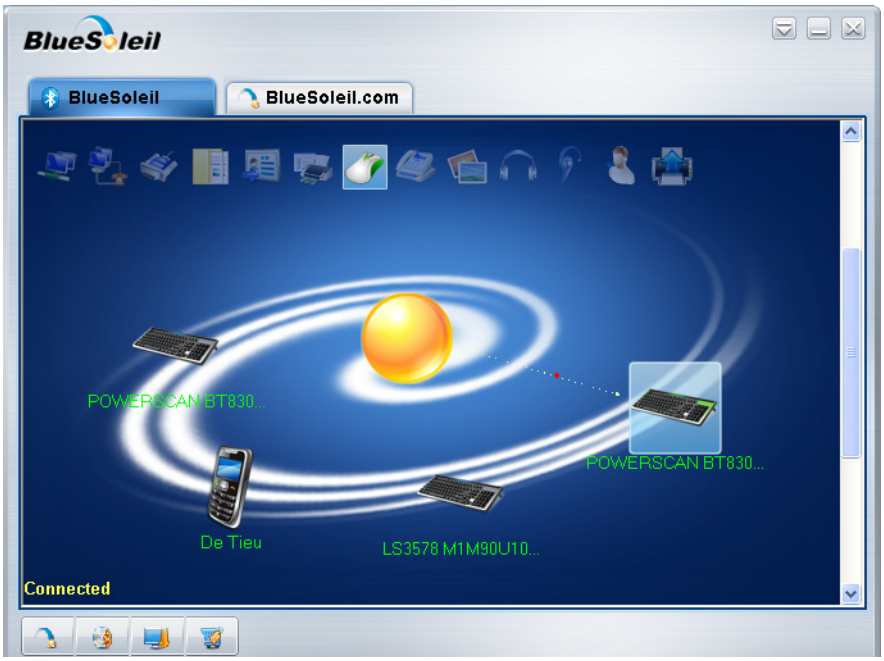
7. Double-click on the **Bluetooth Human Interface Device** icon to establish the connection.



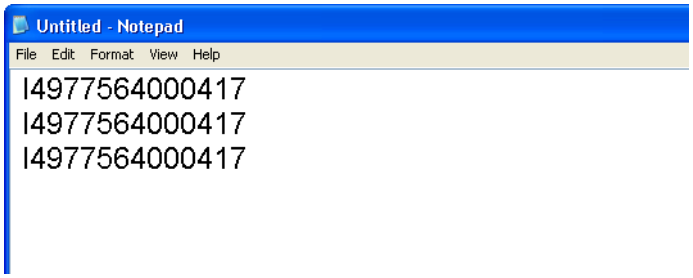
8. A pop-up window will show a PIN Code required for the connection. The reader will emit a beep indicating that it is waiting for input.

9. There are two ways to enter the PIN Code using the reader:
   a. **Keypad** (for PowerScan BT8300 16-key only): Type the PIN Code on the reader's keypad, ending with the **Enter** key.
   b. **Scanning**: Using the reader, scan the bar codes from the Numeric Keypad section of this guide, corresponding with the required PIN Code digits, then scan the **Exit and Save** configuration label.

10. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC.



11. Now the user can read bar code labels and verify that the data appears in the PC's Terminal window.



HID Profile

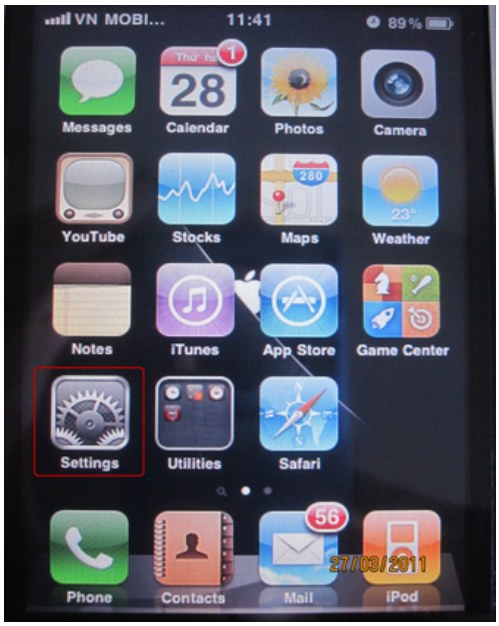
1. To configure the reader to work in HID Profile, scan the label below:

HID Profile

2. Scan the label below to configure the reader to work using the Variable PIN Code feature.

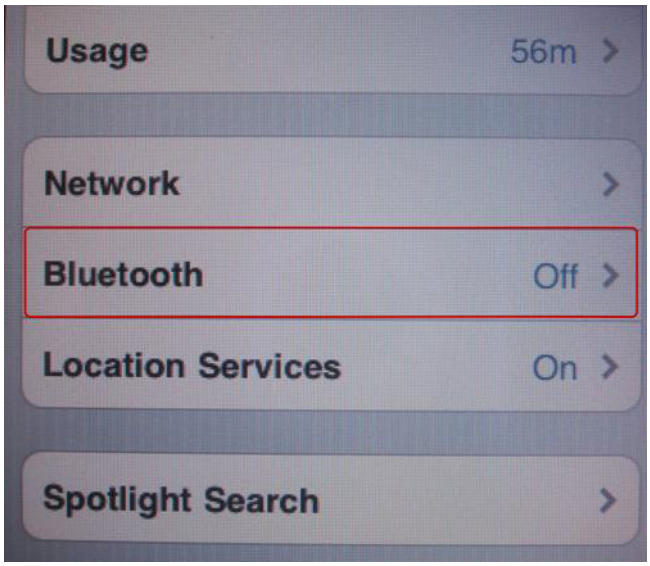
Variable PIN Code

3. From the iPhone Home Screen, click the **Settings** icon.

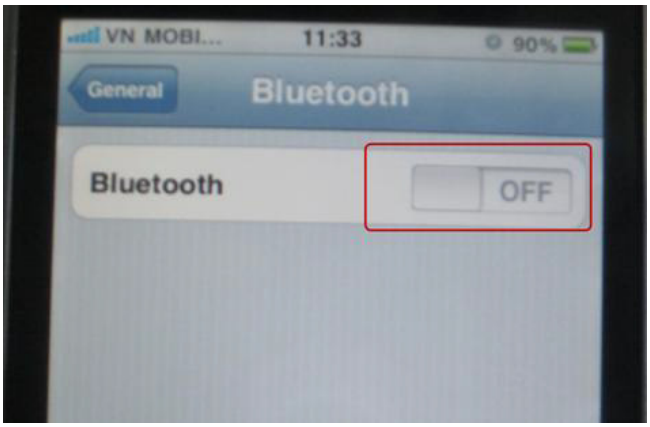


4. Select the **General** tab.

5. Click the Bluetooth setting.

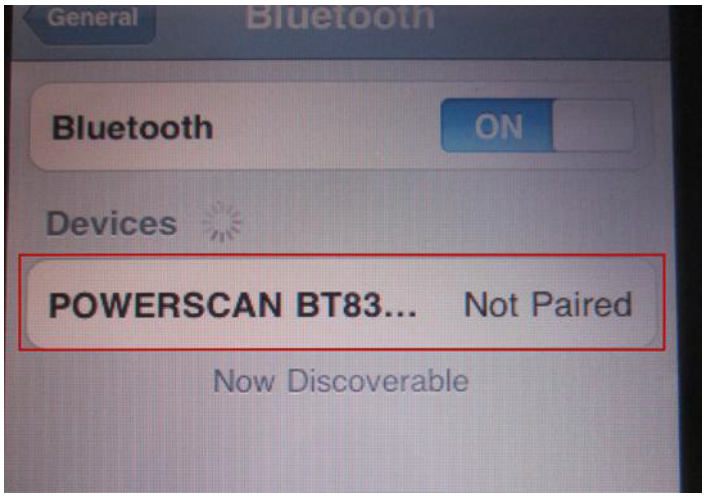


6. Select **Bluetooth ON** to start searching for Bluetooth keyboard devices within radio range.

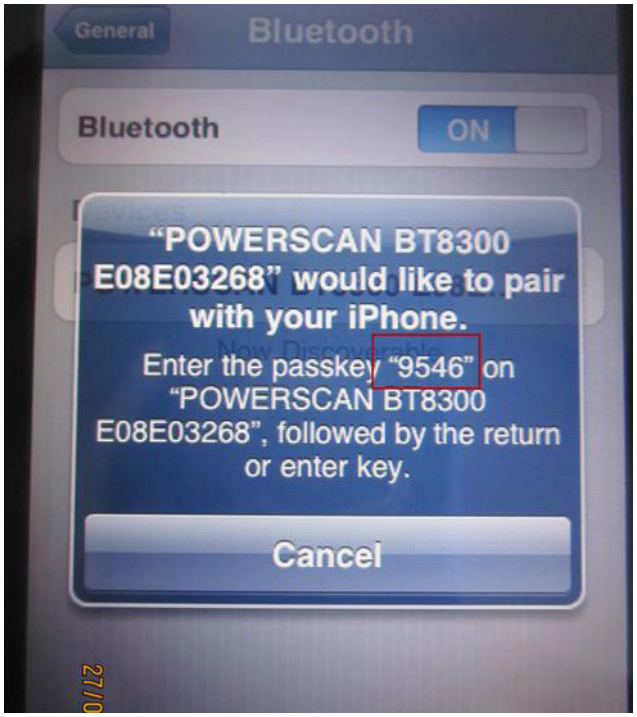


7. After a few seconds, all discovered devices are shown in the **Devices** section.

Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.



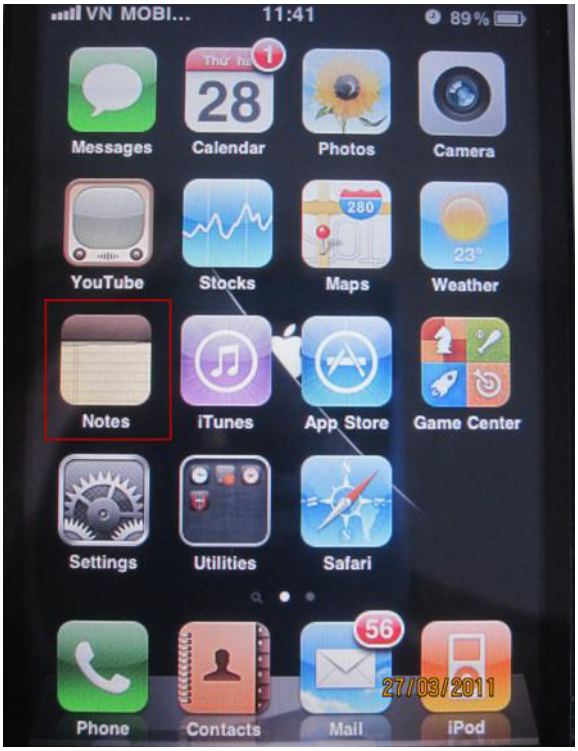
8. Select the reader you want to connect. A pop-up window will show a PIN Code required for the connection. The reader will emit a beep indicating it is waiting for input of the PIN Code.



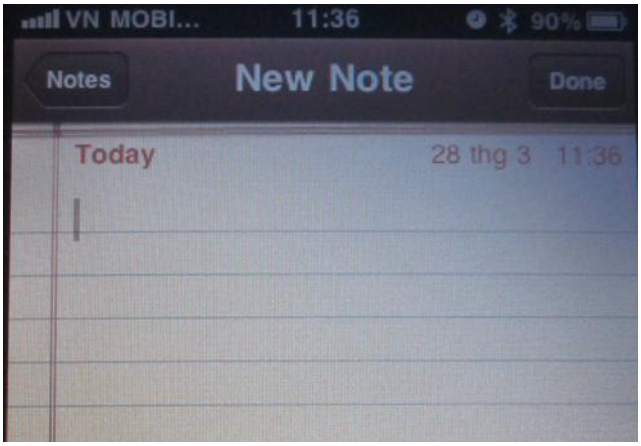
9. There are two ways to enter the PIN Code using the reader:
   a. **Keypad** (for PowerScan BT8300 16-key only): Type the PIN Code on the reader's keypad, ending with the **Enter** key.
   b. **Scanning**: Using the reader, scan the bar codes from the Numeric Keypad section of this guide, corresponding with the required PIN Code digits, then scan the **Exit and Save** configuration label.
10. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC.

Testing the HID Connection

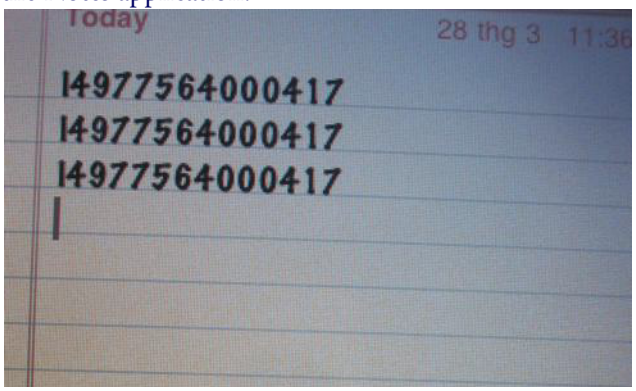
1. From the iPhone home screen, click the **Notes** icon.



2. Ensure the blinking cursor is placed in the notes text area.



3. The user can now use the reader to scan bar codes and verify their data is transmitted to the Notes application.



NOTES

HID Profile

1. To configure the reader to work in HID Profile, scan the label below:

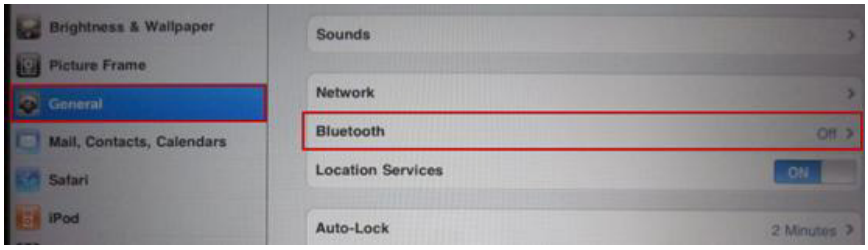
HID Profile

2. Scan the label below to configure the reader to work using the Variable PIN Code feature.

Variable PIN Code

3. From the iPad Home Screen, click the **Settings** icon.

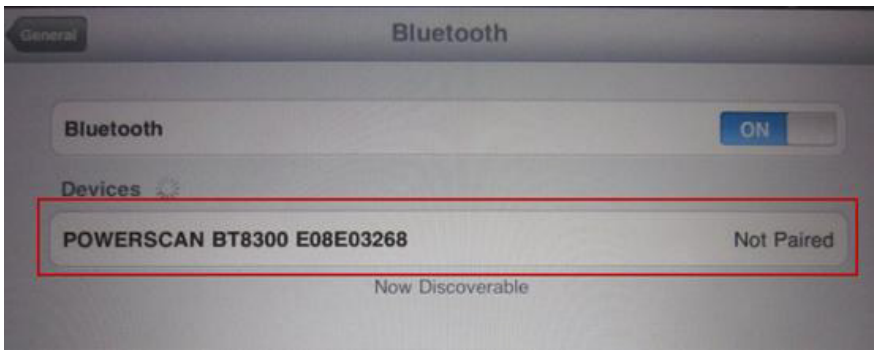
4. Select the **General** tab and click the Bluetooth setting.



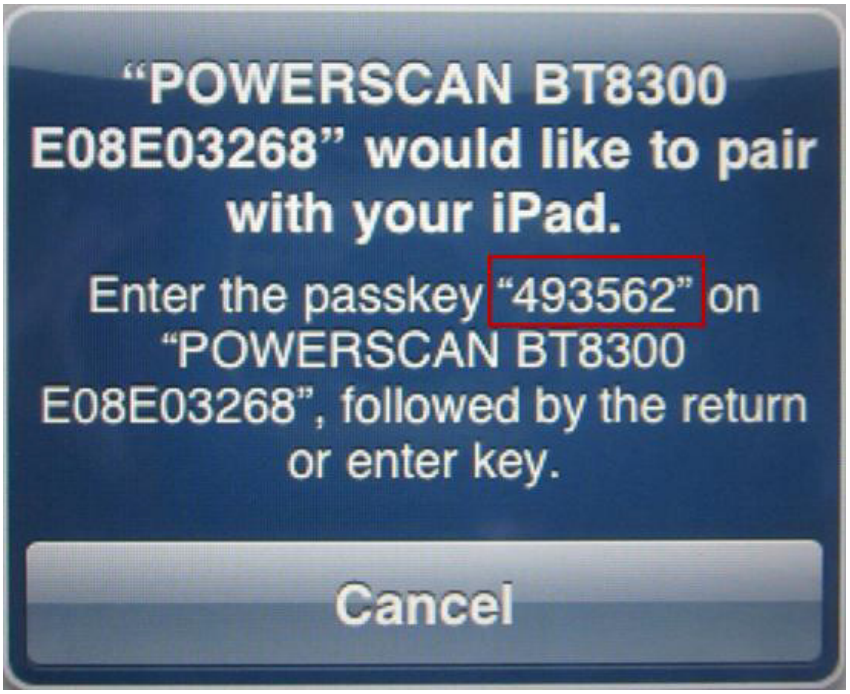
5. Select **Bluetooth ON** to start searching for Bluetooth keyboard devices within radio range.

6. After a few seconds, all discovered devices are shown in the **Devices** section.

Each reader found will list the default Bluetooth name of PowerScan BT8300 and its serial number (look on the body of your PowerScan BT8300 for the label containing the serial number). To set up a unique user-friendly name for each reader, see the PRG for instructions.



7. Select the reader you want to connect. A pop-up window will show a PIN Code required for the connection. The reader will emit a beep indicating it is waiting for input of the PIN Code.



8. There are two ways to enter the PIN Code using the reader:
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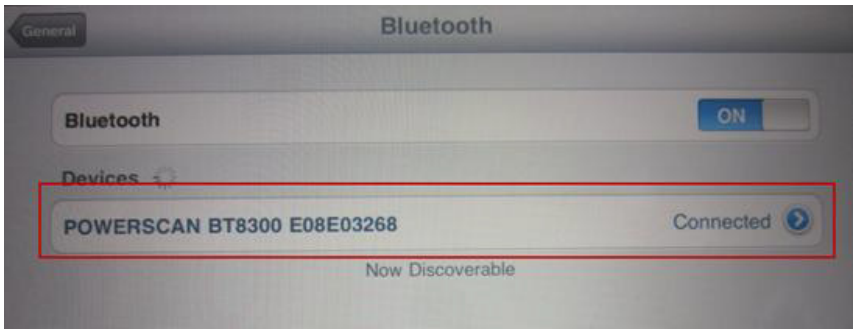
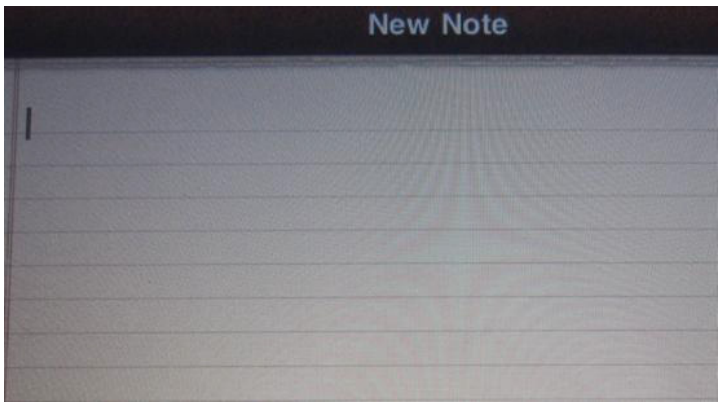
9. Four ascending beeps will be emitted, signaling that the reader has been successfully connected to the Bluetooth-enabled PC.



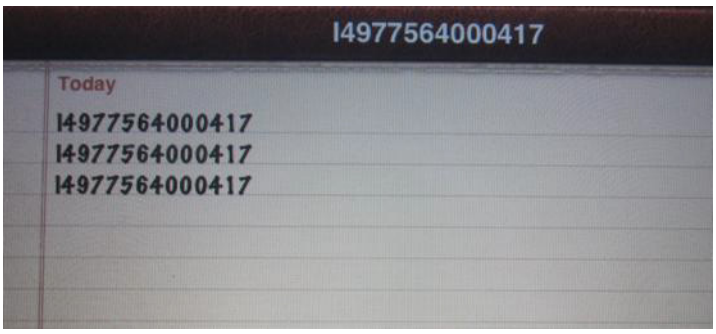
Testing the HID Connection

1. From the iPad home screen, click the **Notes** icon.

2. Ensure the blinking cursor is placed in the notes text area.



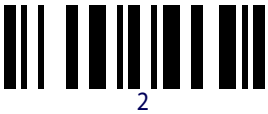
3. The user can now use the reader to scan bar codes and verify their data is transmitted to the Notes application.



Numeric Keypad

0

1


2

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Exit and Save Configuration

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