## 

# **PowerScan<sup>™</sup> BT8300 Family** Industrial Handheld Bar Code Reader with Bluetooth<sup>®</sup> 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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## Introduction

#### **Overview**

The PowerScan<sup>™</sup> 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<sup>®</sup> Stack that is standard with a Microsoft Windows<sup>®</sup> operating system or other driver such as BlueSoleil<sup>™</sup>, WIDCOMM<sup>®</sup> or Toshiba<sup>®</sup>.



Some PCs and/or Bluetooth<sup>®</sup> 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.



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

Bluetooth Devices	;	×
Devices Options	COM Ports Hardware	
Add	<u>R</u> emove	Properties
	ОКС	ancel Apply

. . . . . . . . . . . . . .

#### 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.

Add Bluetooth Device Wizard		
®	Completing the Add Bluetooth Device Wizard	
	The Bluetooth device was successfully connected to your computer. Your computer and the device can communicate whenever they are near each other.	
	These are the COM (serial) ports assigned to your device. Dutgoing COM port: COM4 Incoming COM port: COM5	
	Learn more about <u>Bluetooth COM ports</u>	
	To close this wizard, click Finish.	
	< Back Finish Cancel	

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

Bluetooth Devices
Devices Options COM Ports Hardware
All other devices
POWERSCAN BT8300 E08E03268
Add Remove Properties
OK Cancel Apply

. . . . . . . . . . . . . . . . .

#### **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.

Connect To	? 🛛
🗞 Datalogi	c
Enter details for	the phone number that you want to dial:
<u>C</u> ountry/region:	Vietnam (84)
Ar <u>e</u> a code:	84
Phone number:	
Co <u>n</u> nect using:	СОМ4 🗸
	OK Cancel

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.



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)



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

Bluetooth Devices	<		
Devices Options COM Ports Hardware			
This computer is using the COM (serial) ports listed below. To determine whether you need a COM port, read the documentation that came with your Bluetooth device.			
Port Direction Name			
Add Remove			
Learn more about <u>Bluetooth COM ports</u> .			
OK Cancel Apply			

. . . . . . . . . . . . . . . .

3. Click to select the Incoming COM Port.

Add COM Port	X
Select the type of COM (serial) port that you want to add:	
<ul> <li>Incoming (device initiates the connection)</li> </ul>	
Outgoing (computer initiates the connection)	
Device that will use the COM port:	
×	Browse
Service:	
Learn more about <u>Bluetooth device COM ports</u> . OK	Cancel

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

Bluetooth Devices		
Devices Options COM Ports Hardware		
This computer is using the COM (serial) ports listed below. To determine whether you need a COM port, read the documentation that came with your Bluetooth device.		
Port Direction Name		
COM6 Incoming		
Add <u>R</u> emove		
Learn more about <u>bluetooth LUM ports</u> .		



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.

Connect To	? 🛛
🧞 da	
Enter details for	the phone number that you want to dial:
Country/region:	Vietnam (84)
Ar <u>e</u> a code:	84
<u>P</u> hone number:	
Co <u>n</u> nect using:	СОМБ
	OK Cancel

- 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.

Enter the passkey for the Bluetooth device.	*
POWERSCAN BT8300 E08E03268	
Use the same passkey that you entered on the device.	
Passkey: 1234	
You should always use a passkey, unless your device does not support one. W	'e
recommend using a passkey that is 8 to 16 digits long. The longer the passkey, more secure it will be.	the
<pre></pre>	Cancel



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

7. Click Finish.

Add Bluetooth Device Wizard		
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Completing the Add Bluetooth Device Wizard The Bluetooth device was successfully connected to your computer. Your computer and the device can communicate whenever they are near each other.	
	To close this wizard, click Finish.	
	< <u>B</u> ack <b>Finish</b> Cancel	

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:



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

Bluetooth Devices	6	×
Devices Options	COM Ports Hardware	
A <u>d</u> d	<u>R</u> emove	Properties
	OK Car	ncel Apply

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

. . . . . . . . . . . . . . . . . . .

Add Bluetooth Device Wiz	ard 🔀
	Welcome to the Add Bluetooth Device Wizard  Before proceeding, refer to the "Bluetooth" section of the device documentation. Then set up your device so that your computer can find it:  Turn it on  Make it discoverable (visible) Give it a name (optional) Press the button on the bottom of the device (keyboards and mice only)
	My device is set up and ready to be found. 3 Add only Bluetooth <u>devices that you trust</u> .
	< Back Next > Cancel

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.

Add	l Blue	tooth Device Wizard		×
ę	Select	elect the Bluetooth device that you <del>w</del> ant to add.		
		POWERSCAN BT8300	POWERSCAN BT8300	<u>^</u>
	8	New device POWERSCAN BT8300 E08B17770 New device	New device POWERSCAN BT8300 E08E03268 New device	∃≣
	*	POWERSCAN BT8300 123456789 New device	TQPHAM New device	
		LENOVO A332	🐜 H.thai	~
(	i) lf tu ar	you don't see the device that imed on. Follow the setup ins nd then click Search Again.	you want to add, make sure that it is tructions that came with the device, <u>S</u> earch	n Again
			< Back Next >	Cancel

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

Add Bluetooth Device Wizard
Do you need a passkey to add your device?
To answer this question, refer to the "Bluetooth" section of the documentation that came with your device. If the documentation specifies a passkey, use that one.
O Choose a passkey for me
O Use the passkey found in the documentation:
O Let me choose my own passkey:
On't use a passkey
You should always use a <u>passkey</u> , unless your device does not support one. We recommend using a passkey that is 8 to 16 digits long. The longer the passkey, the more secure it will be.
<pre></pre>

. . . . . . . . .

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.

Bluetooth Devices
Devices Options COM Ports Hardware
Peripherals (keyboards, mice, joysticks)
POWERSCAN BT8300 E08E03268 No passkey

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



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## **Microsoft Windows® 7**

### **Serial Port Profile (Slave)**

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



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)

8 Bluetooth Se	ettings	X
Options COM	Ports Hardware	e
This comput determine w that came wi	er is using the ( hether you nee ith your Bluetoo	COM (serial) ports listed below. To d a COM port, read the documentation oth device.
Port	Direction	Name
COM6	Outgoing	POWERSCAN BT8300 E08E03268 'DLS
COM7	Incoming	POWERSCAN BT8300 E08E03268
		Add Remove
Choose a CC	M port for a Bl	uetooth enabled device.
		OK Cancel Apply

#### **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.

S MicroRidge Serial Test Program COM3 @ 9600-N-8-1	
File Edit Help Micro	oRidge Data Acquisition Solutions
D 🗳 🖬   🚑   X 🖻 💼   ?	
Communications (Received = Yellow, Transmitted = Green):	Connection status:
	<ul> <li>CTS (Input H/S)</li> <li>DSR (Input H/S)</li> </ul>
	RTS (Output H/S)
	Serial port (COM3)
	Display received data Show space char in {}
	Obv CR & LF in {}
	Character set:
	NUL 0 \x00
	STX 2 \x02 =
	EOT 4 \x04 ENQ 5 \x05
🖉 Wrap text	ACK 6 \x06 BEL 7 \x07
Clear Text	Tab 9 \x09 LF 10 \x0a
New Line	VT 11 x0b FF 12 x0c
	CR 13 \x0d SO 14 \x0e
Local commands:	SI 15 (x0f DLE 16 (x10
	DC2 18 x12 XOFF 19 x13
	DC4 20 \x14 NAK 21 \x15 +
je j	To Communications
User commands #1:	To Local commands
Undefined Undefined Undefined Undefined Undefined	Setup Serial Port
Ready	

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.

Serial port: -		Baud rate:	Parity:	Data bits:
Name	Registry Description	C 300	C Even	C 5
C COM1		C 600	C Odd	C 6
C COM2		C 1200	None	C 7
С сомз	\Device\LSIModem5	C 2400	C Mark	· 8
C COM4		C 4800	C Space	
C COM5		· 9600	1	L
COM6	Device BthModem4	C 14.4K	Stop bits:	
C COM7	Device BthModem 5	C 19.2K	· 1	
C COM8		C 58.4K	C 1.5	
C COM9		C 115 2K	C 2	
C COM10		115.25		
C COM11				
C COM12		- Serial port inform	nation: d serial ports are enab	led If a port is
C COM13		enabled, it does	not mean that it is av	ailable. The port
C COM14		may be in use b	y another application.	
C COM15		The registry des	cription may be useful	in determining the
C COM16		type of port or i	ts intended use.	
C COM17				
C COM18				
C COM19				
C COM20				
C COM21				
C COM22				
C COM23				

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.

S MicroRidge Serial Test Program COM6 @ 9600-N-8-1	
File Edit Help	Mi
D 🚄 🔲   🚑   X 🖻 💼   ?	
Communications (Received = Yellow, Transmitted = Green):	
14977564000417 14977564000417	<u> </u>
14977564000417	

### **Serial Port Profile (Master)**

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



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)



S+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**.

JAN		Bluetooth Settings Options COM Ports Hardware Devices:	×
N SAN	Add a Device Allow a Device to Connect Show Bluetooth Devices	Name  Generic Bluetooth Adapter  Microsoft Bluetooth Enumerator	Type Bluetooth Ra Bluetooth Ra
	Send a File Receive a File Join a Personal Area Network Open Settings Remove Icon	Device Properties Manufacturer: GenericAdapter Location: Port_#0001.Hub_#0003 Device status: This device is working properly.	Properties
	🔼 🏴 🗈 🚰 .atl 🌒 9:18 AM	ОК	Cancel Apply

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

	Auvanceu	Driver	Details	Power Manage	ement	
Radio	Information					
Nam	e: NGUYE	INLEQU	AN			
Addr	ess: (70:f3	:95:84:63	3:c1)			
Man	ufacturer Id:	15				
HCI	version 4.30	6. LMP	version 4.	6899.		
					Default	

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

otions CC	M Ports	Hardware	3
This comp determine that came	outer is u whethe with yo	ising the C r you need ur Bluetoo	COM (serial) ports listed below. To d a COM port, read the documentation oth device.
Port	Dir	ection	Name
			Add Remove
			Add Remove

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

Incoming (device	initiates the connecti	on)		
Outgoing (compu	t <mark>er in</mark> itiates the conn	ection)		
Device that will u	e the COM port:			
			*	Browse.
Service:				

. . . . . . . . . . .

. . . . . .

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

determine that came	whether you nee with your Blueto	ed a COM port, read the documentation soth device.
Port	Direction	Name
COM6	Incoming	



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.

S MicroRidge Serial Test Program COM3 @ 9600-N-8-1	
File Edit Help Micro	oRidge Data Acquisition Solutions
Communications (Received = Yellow, Transmitted = Green):	Connection status:
	<ul> <li>CTS (Input H/S)</li> <li>DSR (Input H/S)</li> </ul>
	COutput H/S)     DTR (Output H/S)
	<ul> <li>Serial port (COM3)</li> <li>Display received data</li> <li>Show space char in {}</li> <li>Show CR &amp; LF in {}</li> </ul>
Wrap text     Clear Text     New Line	Character set:         Char         Decimal         Hex           SOH         1         \v01         Image: Solid
Local commands:	SI         15         tyOf           DLE         16         ty10           XON         17         ty11           DC2         18         ty12           XOFF         19         ty13           DC4         20         ty14           NAK         1/215         ▼           O To Communications         ▼         To Local commands
Undefined Undefined Undefined Undefined Undefined	Setup Serial Port
Ready	

. . . . . . . .

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.

Serial port:	V. Max 20 MAX	Baud rate:	Parity:	Data bits:
Name	Registry Description	C 300	C Even	C 5
C COMI		C 600	C Odd	C 6
C COM2		C 1200	None	C 7
C COM3 \Device\LSI	Modem 5	C 2400	C Mark	· 8
C COM4		C 4800	C Space	
C COM5		· 9600		
COM6 \Device\Bth	Modem6	C 14.4K	Stop bits:	
C COM7		C 19.2K	@ 1	
C COM8		C 38.4K	C 1.5	
C COM9		C 57.6K	C 2	
C COM10		( 115.2K		
C COM11				
C COM12		Serial port inform	nation:	and the second is
C COM13		enabled, it does	not mean that it is av	ailable. The port is
C COM14		may be in use b	y another application.	
C COM15		The registry des	scription may be usefu	l in determining th
C COM16		type of port or i	ts intended use.	
C COM17				
C COM18				
C COM19				
C COM20				
C COM21				
C COM22				
C COM23				

- 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.

0	📭 Add a device	A Stationer
	Enter the pairing code for the device This will verify that you are connecting to the correct device.	•
	came with the device.	POWERSCAN BT8300 E08E03268
	What if I can't find the device pairing code?	
		Next Cancel



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:



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



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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.

G	🚅 Add a device		film	×
	Select a device to add to this computer Windows will continue to look for new devices and o	display tł	iem here.	
	NguyenHungCuong Bluetooth Desktop computer POWERSCAN BT8300 E08E03268 Bluetooth Keyboard		POWERSCAN BT8300 E10M23728 Bluetooth Other	
	What if Windows doesn't find my device?		Next	Cancel

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®

WIDCOMM<sup>®</sup> was the first Bluetooth<sup>®</sup> 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.



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.

Bluetooth Device Selection
Select a device Remote devices must be in Discoverable mode for this computer to find them. For assistance in making a remote device discoverable, refer to the remote device's documentation.
NguyenHun POWERSCAN BT8300 E08E03268 BT8300 E10
Search Again Show all devices
If the device you are looking for is not in the list, verify that the device has power and is operational. On some devices, you must press the Connect button to make the device discoverable.
K Back Next > Cancel

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

Bluetooth Security Setup
Bluetooth Pairing Paired devices exchange a secret key each time they connect. This key is unique for each pair of devices; it is used to verify identity and to encrypt the data that the devices exchange.
To pair with the selected device you must know that device's More Info security code.
Pair Now Enter the security code and then click Pair Now. Bluetooth security code: ••••
< Back Skip Cancel



<sup>7</sup> 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.



. . . . . . . . . . .

 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.

Bluetooth Properties
General
POWERSCAN BT8300 E08E03268 DLS Serial Port
Secure Connection
COM Port: COM17 V
OK Cancel Apply

## **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**.

<b>Connection Description</b>		?×
New Connection		
Enter a name and choose an	icon for the connection:	
Name:		
Datalogic		
loon:		
🍋 🍣 🗞	🇠 🛞 🖉	8
		>
	OK Ca	ncel

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.

Connect To	? 🛛
🦓 Datalogi	c
Enter details for	the phone number that you want to dial:
Country/region:	Vietnam (84)
Area code:	
Phone number:	
Connect using:	СОМ17 💌
	OK Cancel

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

. . . . . . .

COM17 Properties		? 🔀
Port Settings		
Bits per second:	9600	~
Data bits:	8	~
Parity:	None	~
Stop bits:	1	~
Flow control:	None	~
	Restore	Defaults
0	K Cancel	Apply

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

🏶 Datalogic - HyperTerminal
File Edit View Call Transfer Help
1077561000117
T4977564000417
14977564000417
-

.....

. . .

. . . . . . . .

## **Serial Port Profile (Master)**

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



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)



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

* My Bluetooth Places			
File Edit View Bluetooth Favorites	Tools Help		
🜀 Back 🔹 🕥 🔹 🏂 🔎 Searc	h 🕞 Folders	•	
Address 🚯 C:\Program Files\WIDCOMM\Blu	etooth Software\My	Bluetooth Places	
Bluetooth Tasks       Image: Constraint of the services         Add a Bluetooth Device         View My Bluetooth services         View devices in range         View or modify configuration			
Other Places       Image: Computer         Image: Desktop       Image: Computer         Image: Desktop <th></th> <th></th> <td></td>			

. . . . . . . . . . . . . . . . . .

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

Bluetooth Configurati	on
General Accessibility L	ocal Services Client Applications Diagnostics
Devices:	
Name	Status Type
😪 HP Integrated Mode	ule with Bluetooth 2.0 Wirele Active USB
- Device Brenetics	
Device Properties	The selected device is working properly.
Manufacturer:	Broadcom Corporation
Firmware Revision:	Version 2.1.207.297
Device Address:	00:27:13:A9:4C:3F
HCI Version:	Bluetooth HCI 2.0
HCI Revision:	2129
LMP Version:	Bluetooth LMP 2.0
LMP Sub Version:	41CF
Refresh	Disable Set Preferred
	OK Cancel Apply Help

- 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.

Bluetooth	Security Code Request	
P	Device Name:	POWERSCAN BT8300 E08E032
÷	Before a connection can be establi listed above must be "paired."	shed, this computer and the device
	Paired devices exchange a secret key is unique for each pair of devic encrypt the data that the devices e	key each time they connect. This es; it is used to verify identity and to xchange.
	To pair with this device, enter the d	levice's security code and click OK.
	Bluetooth security code:	••••
	ОК	Cancel Help



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.

* My Bluetooth Places
File Edit View Bluetooth Favorites Tools Help
🕞 Back 🔹 🕥 🕤 🏂 🔎 Search 🎼 Folders 🛛 🎹 👻
Address 🚯 C:\Program Files\WIDCOMM\Bluetooth Software\My Bluetooth Places
Bluetooth Tasks     Image: Constraint of the services       Add a Bluetooth Device     Image: Constraint of the services       View My Bluetooth services     Image: Constraint of the services       View devices in range     Image: Constraint of the services       View or modify configuration     Image: Constraint of the services
Other Places       Image: Compute state         Image: Desktop       Image: Compute state </td

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

tooth Configurati	on		
neral Accessibility L	.ocal Services Clie	ent Applications Diagn	ostics
elect the services that ouble-click a service n	this computer will pro ame to set its securi	ovide to other Bluetooth ty, start-up options and j	devices. properties.
Service Name	Startup	Secure Connection	COM Port
Printer	Manual Startup	Required	
Bluetooth Imaging	Automatic Startup	Required	
Audio Gateway	Automatic Startup	Required	
Headset	Automatic Startup	Required	
PIM Synchronization	Automatic Startup	Required	
Fax	Automatic Startup	Required	
File Transfer	Automatic Startup	Required	
PIM Item Transfer	Automatic Startup	Required	
Dial-up Networking	Automatic Startup	Required	
Network Access	Automatic Startup	Required	
Bluetooth Serial Port	Automatic Startup	Required	COM12
		Add Carial Carri	Delete

## 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**.

Connection Description	<b>?</b> ×
New Connection	
Enter a name and choose an icon for the connection:	
Name:	
Datalogic	
lcon:	
🍋 🎯 🖾 🍪	8
	>
OK Ca	ncel

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

Connect To	? 🔀
🧞 Datalogi	c
Enter details for I	the phone number that you want to dial:
Country/region:	Denmark (45)
Area code:	
Phone number:	
Connect using:	СОМ12
-	OK Cancel

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

COM17 Properties	? 🛛
Port Settings	
Bits per second: 96	000
Data bits: 8	~
Parity: No	one 💌
Stop bits: 1	~
Flow control: No	one 💌
	Restore Defaults
ОК	Cancel Apply

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

🏶 Datalogic - HyperTerminal
File Edit View Call Transfer Help
D 🗃 📨 🌋 🗈 🎦 🗳
I4977564000417 I4977564000417 I4977564000417 -

# **HID Profile**

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



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



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.

Bluetooth Device Selection	
Select a device Remote devices must be in Discoverable mode for this computer to find them. For assistance in making a remote device discoverable, refer to the remote device's documentation.	*
NguyenHun POWERSCAN BT8300 E08E03268	
Search Again Show all devices	~
If the device you are looking for is not in the list, verify that the device has power and is operational. On some devices, you must press the Connect button to make the device discoverable.	
Ca	ncel

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.

Bluetooth Security Setup	
Bluetooth Pairing Paired devices exchange a secret key each time the for each pair of devices; it is used to verify identity ar devices exchange.	ey connect. This key is unique of the data that the
Pairing with device 'POWERSCAN BT8300 E08E0326	8'.
On your Bluetooth keyboard type the following digits an Enter key.	d press the
Bluetooth security code: 2628924	Pair Now
< B	ack Next > Cancel

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**®

Toshiba has created its own Bluetooth stack for use with Microsoft Windows<sup>®</sup>. 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.

* Version Information	
Bluetooth Stack for Windows by Toshib Version v8.00.03(T) Premium Edition Copyright 2000-2010 TOSHIBA CORPORATION. All rights reserved.	a
Bluetooth Specification Version 3.0, 2.1, 2.0, 1.2, 1.1	к

## **Serial Port Profile (Slave)**

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



. . . . . . . . . . . . . . . . . .

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

. . . . . . . . . . .



3. Wait as the system searches for Bluetooth devices.

Add New Connection V	Vizard	$\times$
Searching for Blueto	oth devices.	
	Searching for Bluetooth devices.	
	<back next=""> Cancel Help</back>	

. . . . . . . . . . . . . . . .

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.

Add New Connection W	'izard	$\times$
Select a device		
	Please choose the Bluetooth device you wish to use. Bluetooth device Device Name POWERSCAN BT8300 E08E03268 Refresh	
ĺ	< Back Next > Cancel Help	

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

Add New Connection W	izard 🛛 🕅
Please wait while wiza	ard searches for remote device services.
Image: Now connecting to your Bluetooth device.If an Authentication is required, a dialogue apper where you need to enter your Pass key (PIN code for the Bluetooth device.For the passkey (PIN code), please see the manual of the device you want to connect. If the passkey is not written in manual, please contact the dealer or the support center of device	
	< Back Next > Cancel Help

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

. . . . . . . . . . . . . . . . . . .

Bluetooth Mar	nager - Bluetooth Security	
<b>A</b>	Bluetooth Passkey (PIN): (If left blank, the default Request Device Bluetooth Device Address:	****           PIN will be used.)           00:07:BE:11:16:02           DOWERSCAN EXCOUNT
	Share authentication inform	ation among all users



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.

Add New Connection Wizard	$\mathbf{X}$
COM port setting	
Setup of COM40 complete. Setup application software and driver if needed.	
< Back Next > Cancel Help	

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.

Connect To	? 🛛					
Real Datalogic						
Enter details for	the phone number that you want to dial:					
Country/region:	Vietnam (84)					
Area code:	84					
Phone number:						
Connect using:	СОМ40					
	OK Cancel					

. . . . . . . . . . . . . .

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

COM17 Properties		<b>?</b> ×
Port Settings		
		_
Bits per second:	9600	
Data bits:	8	
Parity:	None	
Stop bits:	1	
Flow control:	None	
	Restore Defaul	ts
0	K Cancel A	pply

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

🏶 Datalogic - HyperTerminal
File Edit View Call Transfer Help
14977564000417
1497/564000417
-

.....

. . . . . .

## **Serial Port Profile (Master)**

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



 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)



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.

Bluetooth Mar	nager - Bluetooth Security	
	Bluetooth Passkey (PIN):	****
Ŵ	(If left blank, the default Request Device	PIN will be used.)
	Bluetooth Device Address:	00:07:BE:11:16:02
	Bluetooth Device Name:	POWERSCAN BT8300 E08E03268
	Share authentication inform	ation among all users
		OK Cancel



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.

Options			? 🗙				
General	Security Blue	tooth Information Exchang	jer Audio				
Assistant Other Diagnostics IT Admin							
COM Port Settings							
Addition	n and deletion of virtua	l Bluetooth COM ports					
<u> </u>		Bluetooth Loca	І СОМ				
COM p	ort settings for fax trai	nsmission or dial-up access	;es.				
		Settings.					
PAN Auto Connect Settings In the event that the system resumes from Sleep mode (standby) during a connection, the connection will be automatically re-established.							
HID Profile Wakeu	o Settings						
Set up device tha	t can disable the Sleep	(standby) mode on the co	omputer,				
Settings							
Healthcare Device Settings							
Displays a message when data is received from the Healthcare Device.							
		OK Car	cel Apply				

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

4	🖥 Bluetoot	th Local COM		×	
	Existing COM	1 Ports:			
	Port	Description	Owner	~	
	COM1	Communications Port (COM1)	System		
	COM2	Communications Port (COM2)	System		
	СОМЗ	Intel(R) Remote PC Assist T	System		
	COM6	Toshiba BT Port (COM6)	LocalCOM-Client		
	COM7	Toshiba BT Port (COM7)	LocalCOM-Server[SerialPort(TOSHIB		
	COMIS	Toshiba BT Port (COMIS)	Information Exchanger		
	COM16	Toshiba BT Port (COM16)	Information Exchanger		
	COM17	Toshiba BT Port (COM17)	Information Exchanger		
	COM18	Toshiba BT Port (COM18)	Information Exchanger		
	COM19	Toshiba BT Port (COM19)	Information Exchanger		
	COM20	Toshiba BT Port (COM20)	HSP Manager	_	
	COM21	Toshiba BT Port (COM21)	HSP Manager	~	
	<	Ш	>		
	TOSHIB	<b>A</b> A	dd Delete OK		

### **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.

. . . . . . . . .

Connect To	? 🛛					
Datalogic						
Enter details for	the phone number that you want to dial:					
Country/region:	Vietnam (84)					
Area code:	84					
Phone number:						
Connect using:	СОМ7					
	OK Cancel					

4. Select Restore Defaults for COM Port Properties

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

COM17 Properties	? 2	<
Port Settings		
Bits per second:	9600	
Data bits:	8	
Parity:	None	
Stop bits:	1	
Flow control:	None	
	Restore Defaults	
0	OK Cancel Apply	

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:



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



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.

Bluetooth Ma	nager - Bluetooth Security	
<b>A</b>	Bluetooth Passkey (PIN): Type the above passkey and the keyboard. Request Device Bluetooth Device Address: Bluetooth Device Name:	23612 en press ENTER by using the remote 00:07:BE:11:16:02 POWERSCAN BT8300 E08E03268
	Share authentication inform	ation among all users Close

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.

Add New Connection Wiz	ard	×		
Please wait while the wizard registers the setting information.				
	Registering a HID device to this system. Please wait.			
	< Back Finish Cancel Help			

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

8 Bluetooth Settings	
Bluetooth View Help	
POWERSCAN BT8300 E08E03268	TOSHIBA
New Connection	🔁 Detail 💢 Delete

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

<b>N</b>	New Text Document - Notepad								
File	Edit	Format	View	Help					
149 149 149	7756 7756 7756	400041 400041 400041	L7 L7 L7						

. . . . . . . .

# NOTES

# **BlueSoleil**

## **BlueSoleil**<sup>TM</sup>

BlueSoleil<sup>TM</sup> 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.



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



#### Serial Port Profile (Slave)

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.

② POWERSCAN E	T8300 E08E03268 Properties	
General		
0	POWERSCAN BT8300 E08E03268	
Device Type:	Unknown device	
Device Address:	00:07:BE:11:16:02	
	OK Cancel A	pply

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

🕴 Bluetooth Passkey(P	OWERSCAN BT8300 E08E03268)	X
A remote device ne relationship for futur passkey on this dev	eds a Bluetooth Passkey to create Paired e connections. Please use the same rice as on the remote device.	OK Cancel
Remote Device:	POWERSCAN BT8300 E08E03268	
Address:	00:07:BE:11:16:02	
Passkey:		
Time Left:	21 s	



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.

Connect To	? 🔀	
🗞 Datalogic		
Enter details for the phone number that you want to dial:		
Country/region:	Vietnam (84) 💉	
Area code:	84	
Phone number:		
Connect using:	СОМ12	
	OK Cancel	
4. Select **Restore Defaults** for COM Port Properties.

COM12 Properties			?×
Port Settings			
Bits per second:	9600	*	
Data bits:	8	*	
Parity:	None	*	
Stop bits:	1	*	
Flow control:	None	*	
		Restore Defau	ts
OK Cancel Apply			pply

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.



 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)



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.

🕴 Bluetooth Passkey(0	0:07:BE:11:16:02)		×
A remote device ne relationship for futur passkey on this dev	eds a Bluetooth Passkey to cre e connections. Please use the ice as on the remote device.	same <u>D</u> K	
Remote Device:	Unknown device		
Address:	00:07:BE:11:16:02		
Passkey:			
Time Left:	24 s		



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.

Bluetooth Service Authorization	
Bluetooth device "00:07:BE:11:16:02" is attempting to access Bluetooth Serial Port (COM8) service. Click Yes to allow this device to access this service.	Yes No
Always allow this remote device to use this service in my device	
Time Left: 28 s	

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.

Connect To	? 🔀	
Restance Datalogic		
Enter details for I	the phone number that you want to dial:	
<u>C</u> ountry/region:	Vietnam (84) 🔽	
Ar <u>e</u> a code:	84	
Phone number:		
Co <u>n</u> nect using:	СОМ8	
	OK Cancel	

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

COM8 Properties	?	×
Port Settings		
Bits per second:	9600 🗸	
Data bits:	8	
Parity:	None	
Stop bits:	1 🗸	
Flow control:	None	
	Restore Defaults	
OK Cancel Apply		

. . . . . .

. . . . . . . . . . . . . . . . . .

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

🌯 Datalogic - HyperTerminal
File Edit View Call Transfer Help
D 🖆 🗇 🕉 🗈 🎦 🗳
I4977564000417 I4977564000417 I4977564000417 -

## **HID Profile**

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



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.



🗢 POWERSCAN B	T8300 E08E03268 Properties	×
General		
-	POWERSCAN BT8300 E08E03268	
Device Type:	Keyboard	
Device Address:	00:07:BE:11:16:02	
		(pply



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.

🕏 Bluetooth Passkey(POWERSCAN BT8300 E08E03268) 🛛 🛛 🔀			
A remote device needs a Bluetooth Passkey to create Paired relationship for future connections. Please use the same passkey on this device as on the remote device.			
Remote Device:	POWERSCAN BT8300 E08E03268		
Address:	00:07:BE:11:16:02		
Passkey:	39809		
Time Left:	19 \$		

- 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.

🚨 Untitled - Notepad
File Edit Format View Help
14977564000417
14977564000417
14977564000417

## **iPhone**®

### **HID Profile**

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



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



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.

General Bluetooth	
Bluetooth	ON
Devices	
POWERSCAN BT83	Not Paired
Now Discoverat	ble

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.

anti VN MOBI 11:4	0 🕷 88% 🚍
General Blueto	ooth
	A DESCRIPTION OF TAXABLE PARTY.
Bluetooth	ON
Devices	
POWERSCAN	Connected 📀
Now Disco	overable
Now Dick	

### **Testing the HID Connection**

- 1. From the iPhone home screen, click the **Notes** icon. IN MOBI ... 1:41 9 89% Camera YouTube Stocks Maps Weather Notes Tunes Gam Utilities Safari Phone Contacts
- 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

## iPad<sup>®</sup>

### **HID Profile**

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



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



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



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

Brightness & Wallpaper	Sounds	
Picture Frame		
General	Network	
Mail, Contacts, Calendars	Bluetooth	< no
Satari	Location Services	ON.
iPod	Auto-Lock	2 Minutes >

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

6	enetal	Bluetooth	
	Bluetooth		OFF

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.

Bluetooth	
Bluetooth	ON
Devices	
BOWEBOOMU BEARA FAREADAS	Not Paired

. . . . . . . . . . . . . . . .

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

Bluetooth	ON
Devices 1	
POWERSCAN BT8300 E08E03268	Connected 🧕
Now Discoverable	

### **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.

14977564000417		
Today		
14977564000417		
14977564000417		
14977564000417		

## **Numeric Keypad**



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