

Compatibility paper for Bluetooth barcode and RFID scanners:

Baracoda Pencil2
DFly
RoadRunners
RoadRunners Evolution
ScanWear
ToughRunners
IdBlue
TagRunners

Important Notice

Baracoda products works with all Bluetooth devices accepting both SPP connection and "sniff mode".

Some Bluetooth products available on the market do not support the "sniff mode" (low power consumption mode) as specified. You should not use such product with your Data Capture scanner to plenty benefit of great capabilities of Baracoda barcode scanners.

For best usage of your barcode scanner, Baracoda provides several hardware and software solutions. For most common platforms (PC, PDA, Mobile phones), Baracoda provides two software to be used depending of your system. Please check our compatibility table (www.baracoda.com Download & Partners section) in order to know which of the "BaracodaManager" or the "KEmul" software to download. Software Development Kit (SDK – APIs) available for developers.

Differences between BaracodaManager and KEmul

BaracodaManager handles all Bluetooth related tasks as well as all products settings. We highly recommend to use the BaracodaManager software for an optimum usage of your product. For more information about BaracodaManager, please visit www.baracoda.com. The BaracodaManager software is compatible with the Microsoft & Widcomm/Broadcom Bluetooth stacks.

KEmul inserts the scanned barcode value in a field that you select in your application program. It allows only to add a prefix and a suffix, not to change the others scanner settings. KEmul can be used as a stand-alone program or as a plugin with BaracodaManager.

To use KEmul as a stand-alone program, follow these steps:

1. Create a SPP connection using your Bluetooth software (note COM port number associated),
2. Open KEmul and select associated COM port number, then start.
3. Open your application software and select field
4. Scan barcode

The KEmul software is compatible with the whole of the Bluetooth stack of the market.

Developers:

Baracoda can provide Software Development Kit for all platforms compatibles with BaracodaManager.

POS users and users replacing a serial barcode scanner on any platform:

If you use your Baracoda Barcode Scanner with a Baracoda RS232 or USB Plug & Scan dongle, you **do not need** any additional software, as all necessary software is embedded in the dongle.

Laptop / Notebook / TabletPC

OS: Windows 2000, XP, Vista



Bluetooth Stack:

- Widcomm 1.2.2.9 & following (except from 1.3.0 to 1.3.2.7 and the stack 1.3.2.19 and 1.4.3.4) till 3.0.x.x and Widcomm/Broadcom 4.0 and following: Use BaracodaManager or KEMUL.
- Widcomm 1.2.2.8 & previous (and from 1.3.0 to 1.3.2.7): Use KEmul or ask your vendor to provide you more recent driver if you want to use BaracodaManager.
- Microsoft: Use BaracodaManager software or KEmul.
- Any other: Use KEmul.

Note: If your platform is not Bluetooth embedded, we advice you to use our **Baracoda Plug&Scan offer** (no software installation or Bluetooth stack needed):

- **RS232 Plug&Scan dongle** working on **every computer with a RS232 port** available.
- **USB Plug&Scan dongle** working on **every computer with a USB port** available.

More details in the complete Compatibility Table available on our Website: www.baracoda.com ("Download & Partners" section)

PC:

Windows 2000 / XP / Vista

BaracodaManager software: Up to 7 scanners connected (PC in Master mode)

KEMUL software: 1 scanner connected at maximum (PC in master mode)

Plug&Scan offer: 1 scanner connected at maximum (PC in master mode)

PDA & TabletPC

OS: WinCE, PocketPC 2000, PocketPC 2002, PocketPC 2003, Palm OS, WinCE.NET



WinCE and **PocketPC 2000**: Use KEmul

PPC2002/2003 with Widcomm/Broadcom Bluetooth Stack:

Driver HP/Compaq: Use BaracodaManager

Widcomm 1.0.0.11 & following or Broadcom 1.0: Use BaracodaManager

Widcomm 1.0.0.10 & previous: Use KEmul or ask your vendor to provide you more recent driver

All other stacks: Use KEmul

PPC2002/2003 with Microsoft Bluetooth Stack: Use BaracodaManager

Palm OS

Baracoda Barcode devices and Baracoda API for Palm are fully compatible with Palm Bluetooth software. Baracoda provides a Palm version of the BaracodaManager for testing purpose as well as all the required information for developers to integrate Baracoda scanners in your application program using Baracoda Software Development Kit.

Win CE.NET:

We have the ability to provide a BaracodaManager software with this platform, but we don't have a generic version as it depends on the Hardware itself. So if you need a BaracodaManager for this platform, we will compile and test the version "on demand".

Please find on Baracoda website a special BaracodaManager version for each of the following products: **Psion NetBookPro, WorkAboutPro, Psion 7535, Siemens Mobic T8, Skeyepad, Intermec CV60, Panasonic CF08, NordicID PL3000, Panasonic CF08, IEI Afolux series AFL-07a & AFL-08a**

More details in the complete Compatibility Table available on our Website: www.baracoda.com ("Download & Partners" section)

PDA & TABLET PC:

Windows CE, Pocket PC 2000/2002/2003, Windows Mobile 5/6, Palm OS, WinCE.Net

BaracodaManager software: 1 scanner connected at maximum (PC in Master mode)

KEMUL software: 1 scanner connected at maximum (PC in master mode)



Mobile Phone / Smartphone

OS :

Symbian 9.1 for Nokia S60 V3 & Sony-Ericsson UIQ3

BlackBerry OS 4.2

Motorola (JSR82)

Windows Mobile 5 & 6 Smartphone edition

Symbian 6/7/8/9 (JSR82) for Nokia S60 V1 V2 & Sony-Ericsson UIQ

Symbian 9.1: use KEmul

Compatible with **Nokia S60 V3 & Sony-Ericsson UIQ3** platforms

BlackBerry OS 4.2: use BaracodaManager

Compatible with **BlackBerry 8xxx** series

Motorola (JSR82): use BaracodaManager

Java demo software compatible with **Motorola i605 & i615**

Windows Mobile 5 & 6 Smartphone edition: use BaracodaManager

Baracoda already tested with **HTC S730**

Symbian 6, 7, 8, 9: Baracoda provides beta version of the KEmul (java version)

Baracoda already tested with

Sony Ericsson P800, P900, P910, M600

Serie S80: Nokia 9300 & Nokia 9500

Serie S60: Lenovo P930, Nokia N72, Nokia N70, Nokia N73, Nokia N90, Nokia 6682, Nokia 6681, Nokia 6680, Nokia 3230, Nokia 6670, Nokia 6670, Nokia 6630, Nokia 6260, Nokia N-Gage QD, Nokia 7610, Nokia 6620, Nokia 3660, Nokia 3620, Nokia 6600, Nokia 3600, Nokia N-Gage, Nokia 3650, Nokia 7650, Nokia 7650, Panasonic X800, Panasonic X700, Samsung SGH D730, Samsung SGH D720, Siemens SX1

More details in the complete Compatibility Table available on our Website: www.baracoda.com ("Download & Partners" section)

Mobile phone:

BlackBerry OS 4.2

Nokia S60 v1 & v2 series (J2ME)

Sony-Ericsson Sony Ericsson UIQ serie (J2ME)

Nokia S60 V3 platform (Symbian 9.1)

Sony Ericsson UIQ3 platform (Symbian 9.1)

Motorola i605/i615 (JSR82)

1 scanner connected at maximum (Mobile Phone in master mode)

What is an SPP connection (SPP Profile)?

A Bluetooth connection is done via a service/profile (ex: SPP, PAN, DUN, Networking, File Transfert, ...). SPP (Serial Port Profile) is the most frequently used profile. It is similar with a cable replacement.

The SIG consortium doesn't oblige manufacturers to have all these different profiles in every Bluetooth device, but the SIG obliges that, if a profile is implemented in a device, this must be compatible with any other device with that same profile: be careful and always check which profiles are available in a Bluetooth card or Bluetooth USB Dongle you would like to buy.

What is a Bluetooth stack?

A Bluetooth device, from an architectural point of view, is a pile of different protocol layers. The architectural protocol layers of a Bluetooth wireless communication system, comprising the Host Control Interface (HCI), Logical Link Control and Adaptation Protocol (L2CAP), RS232 Serial Cable Emulation Profile (RFCOMM), Service Discovery Protocol (SDP), and Object Exchange (OBEX) are commonly called "stack"

So Bluetooth is a standard but every manufacturer is working on a particular "stack", sometimes proprietary.

The most common stack is the Microsoft stack.

How do I check the version of the stack ?

Ask your vendor or right click on the Bluetooth logo of your device (for PC and PDA). Go on properties and you will find out on which stack your device is turning and what is the version of this stack.

All our softwares and SDKs are available on our website:

**<http://www.baracoda.com/>
(“Download & Partners” section)**

About Baracoda

Baracoda is the world's first and only manufacturer offering a full range of Bluetooth barcode and RFID scanners. Baracoda's field-proven wireless and barcode scanning solutions provide its customers and partners with efficient tools that are innovative, reliable and convenient to use, simplifying integration for a quick Return on investment.