# BROADCOM®

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## BCM1000-WCE
### PRODUCT Brief

# BLUETOOTH™ COMMUNICATIONS SOFTWARE FOR WINDOWS® MOBILE

## FEATURES

- **Bluetooth 1.2 compliant protocol software for Microsoft Windows Mobile 2003 platforms.**
- **Optimized for use with Blutonium® silicon solutions.**
- **Support for Compact Flash and UART hardware implementations.**
- **Support for ARM®/StrongARM, XScale®, and OMAP microprocessors.**
- **Bluetooth profile support includes: GAP, SPP, GOEP, DUN, FTP, OPP, HSP/Audio Gateway, HFP (Phone Edition only), HCRP, BPP, HID, GAVDP, A2DP, and AVRCP.**
- **Legacy ActiveSync support via SPP.**
- **Spy trace tool for monitoring Bluetooth activity.**
- **User applications including Bluetooth Manager and Connection Wizard.**
- **Intuitive implementation assists users in establishing Bluetooth connections to headsets, hands-free kits, personal computers, and personal digital assistants.**
- **Software supports Landscape mode and VGA resolution.**
- **Software localized to ten languages.**
- **System integration assistance to ensure successful Bluetooth implementation.**
- **Documentation includes OEM Interface Document and Porting Guide.**

## SUMMARY OF BENEFITS

- **Complete Software Solution**
  - The BCM1000-WCE is a complete turnkey software solution and includes the upper layer Bluetooth protocol stack including profile support, hardware interface drivers, user interface and integration support to ensure the successful launch of Bluetooth enabled Windows Mobile devices. In addition, Broadcom offers application programming interfaces (APIs) to allow third-party application providers to write Bluetooth enabled applications for Windows Mobile platforms.
- **Optimized for use with Broadcom Blutonium Bluetooth Solutions**
  - The BCM1000-WCE has been optimized for use with Blutonium silicon solutions. By offering a total software and hardware solution, Broadcom can ensure product functionality and enable fast time to market.
- **Interoperability Assurance**
  - Broadcom is a leader in both conformance testing and interoperability. Broadcom is the first company in the world to receive a BQB product listing, the first ever 1.0b qualified Bluetooth protocol stack with profiles, and a major participant at the Bluetooth Unplugfest events. Broadcom has consistently demonstrated Bluetooth wireless technology solutions between PDAs, PCs, and various embedded devices.
- **Support and Training**
  - As a premier Bluetooth wireless technology company, Broadcom provides a wide array of services, from extensive technical support and product training to conformance assistance.

## HP iPAQ hx4700 using Bluetooth wireless technology

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# O V E R V I E W

The BCM1000-WCE is a Broadcom communications software solution for adding Bluetooth wireless technology to Windows Mobile/ Pocket PC operating system platforms. PDA OEMs and electronics manufacturers can quickly and easily add Bluetooth capabilities to mobile devices as well as other electronics products that utilize the Windows Mobile operating system. This innovative software solution is fully compliant with the Bluetooth 1.2 core protocol specification and leverages Bluetooth Qualification Body (BQB) conformance testing into your product.

The BCM1000-WCE is designed for Microsoft Mobile 2003 Second Edition for Pocket PC and includes the Bluetooth protocol stack, application programming interfaces (APIs), hardware interfaces, user application programs, support and trace tools, and documentation. The BCM1000-WCE is designed to operate on both Pocket PC and Pocket PC Phone Edition platforms. Leveraging Broadcom BCM1200-BTE (Bluetooth for Embedded) and BCM1000-BTW (Bluetooth for Windows) products, the BCM1000-WCE provides simple integration, powerful diagnostics and the shortest possible time to market, exactly what you'd expect from the experts at developing Bluetooth wireless communication solutions.

## *Specifications*

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|---|---|
| **Bluetooth Wireless Interface** | Compliant with Bluetooth Core Specification Version 1.2 |
| **Bluetooth Profiles Supported** | • Generic Access Profile (GAP)<br>• Serial Port Profile (SPP)<br>• Generic Object Exchange Profile (GOEP)<br>• Object Push Profile (OPP)<br>• File Transfer Profile (FTP)<br>• Dial-up Networking Profile (DUN)<br>• LAN Access Profile (LAP)<br>• Personal Area Network Profile (PAN)<br>• Headset Profile (HSP)<br>• Basic Printing Profile (BPP)<br>• Hardcopy Cable Replacement Profile (HCRP)<br>• ActiveSync (via Serial Port Profile)<br>• Hands Free Profile (HFP)<br>• Human Interface Device Profile (HID)<br>• Generic Audio Video Distribution Profile (GAVDP)<br>• Advanced Audio Distribution Profile (A2DP)<br>• Audio Video Remote Control Profile (AVRCP) |
| **Operating Systems Supported** | Windows Mobile 2003 (including Second Edition) for Pocket PC and Pocket PC Phone Edition |
| **Hardware Implementations** | UART, Compact Flash |
| **Bluetooth Hardware Support** | Various Bluetooth-compliant chipsets |
| **Target Hardware Platform** | ARM/StrongARM, XScale and OMAP |
| **User Applications** | Bluetooth Manager, Connection Wizard, Configuration Panel |
| **Localization Support** | English, Brazilian Portuguese, Chinese (Simplified), Chinese (Traditional), French, German, Italian, Japanese, Korean, Spanish |
| **Installation** | Installation scripts provided |

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