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BCM1000-BSP

PRODUCT Brief

BLUETOOTH™ COMMUNICATIONS SOFTWARE FOR WINDOWS® MOBILE 2003 FOR SMARTPHONE

FEATURES

- **Complete Bluetooth 1.2 compliant protocol software for Microsoft® Smartphone platforms**
  - Includes integrated user interface to enable seamless Bluetooth functionality.
- **Optimized for use with Blutonium® silicon solutions.**
- **Support for UART hardware implementation.**
- **Support for ARM™/StrongARM, XScale, and OMAP application processors.**

  Bluetooth profile support includes: GAP, SPP, GOEP, DUN, FTP, OPP, HSP/Audio Gateway, HFP, HID, BIP, PAN, GAVDP, A2DP, AVRCP, and BPP.
- **Legacy ActiveSync support via SPP.**
- **Spy trace tool for monitoring Bluetooth activity.**
- **User interface applications including Bluetooth Manager and Configuration Panel.**
- **Intuitive implementation assists users in establishing Bluetooth connections to headsets, hands free kits, personal computers, and personal digital assistants.**
- **System integration assistance to ensure successful Bluetooth implementation.**
- **Integration support for audio path implementation enables voice calls to be routed to Bluetooth headsets and hands-free kits.**
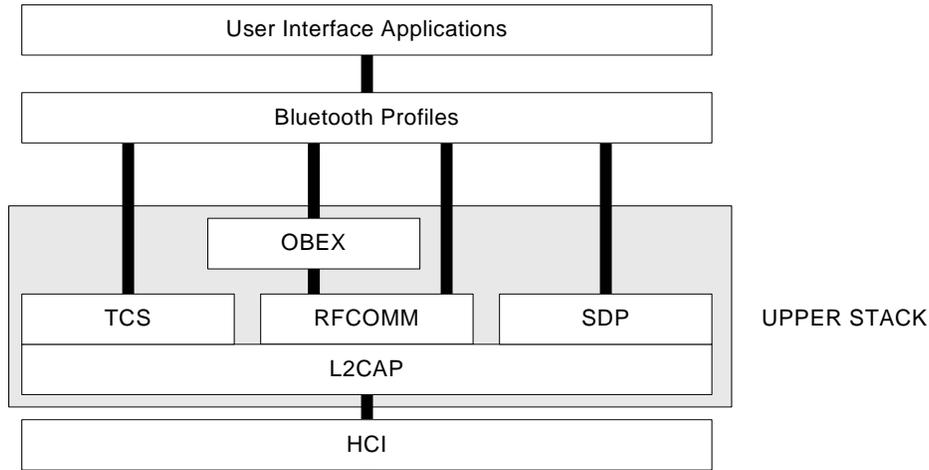- **Documentation includes OEM Interface Document and Porting Guide.**

SUMMARY OF BENEFITS

- **Complete Software Solution**
  - The BCM1000-BSP product 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 Smartphones. In addition, Broadcom offers application programming interfaces (APIs) to allow third party application providers to write Bluetooth enabled applications for Smartphone platforms.
- **Optimized for use with Broadcom Blutonium Bluetooth Solutions**
  - The BCM1000-BSP product 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. We are the first company in the world to receive a Bluetooth Qualification Body (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**
  - Broadcom provides a wide array of services - from extensive technical support and product training to conformance assistance.

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Bluetooth Hierarchy

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          │        User Interface Applications        │
          └─────────────────────────────────────────┘
                            │
          ┌─────────────────────────────────────────┐
          │            Bluetooth Profiles             │
          └─────────────────────────────────────────┘
             │        │          │          │
          ┌─────────────────────────────────────────┐
          │              ┌──────────────┐             │
          │              │    OBEX      │             │
          │              └──────────────┘             │
          │  ┌────────┐ ┌──────────┐ ┌──────────┐    │   UPPER STACK
          │  │  TCS   │ │  RFCOMM  │ │   SDP    │    │
          │  └────────┘ └──────────┘ └──────────┘    │
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          │  │               L2CAP               │   │
          │  └───────────────────────────────────┘   │
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          ┌─────────────────────────────────────────┐
          │                  HCI                      │
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The BCM1000-BSP is Broadcom's communications software for adding Bluetooth wireless technology to Microsoft® Smartphone operating system handsets. Mobile phone OEMs can quickly and easily add Bluetooth capabilities to the next generation smart phones that use the Microsoft Smartphone operating system.

This innovative software solution is fully compliant with the Bluetooth v1.2 core protocol specification and leverages Bluetooth Qualification Body (BQB) conformance testing into your product.

The BCM1000-BSP is designed for Microsoft Windows® Mobile 2003 and includes the Bluetooth protocol stack, application programming interfaces (APIs), hardware interface, user application programs, support and trace tools, and documentation.

The BCM1000-BSP is designed to operate on mobile phones running the Windows Mobile 2003 for Smartphone operating system.

Leveraging Broadcom's BCM1200-BTE, BCM1000-BTW and BCM1000-BTW-CE, the BCM1000-BSP 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.

Bluetooth wireless interface complies with Bluetooth Core Specification Version 1.2.

Bluetooth profiles supported:
- Generic Access Profile (GAP)
- Serial Port Profile (SPP)
- Generic Object Exchange Profile (GOEP)
- Object Push Profile (OPP)
- File Transfer Profile (FTP)
- Dial-up Networking Profile (DUN)
- Headset Profile (HSP)
- Hands-free Profile (HFP)
- Basic Printing Profile (BPP)
- ActiveSync (via Serial Port Profile)
- Human Interface Device Profile (HID)
- Basic Imaging Profile (BIP)
- Personal Area Networking Profile (PAN)
- Generic Audio Video Distribution Profile (GAVDP)
- Advanced Audio Distribution Profile (A2DP)
- Audio Video Remote Control Profile (AVRCP)

Contact Broadcom for availability of other profiles.

Operating system supported:	Windows Mobile 2003 Smartphone
Hardware Implementation:	UART, USB
Bluetooth Hardware Support:	Various Bluetooth compliant chipsets
Target Hardware Platform:	ARM/StrongARM XScale OMAP
User Applications:	Bluetooth manager Configuration panel PC Remote
Localization Support:	English only*

Specifications subject to change without notice.
*Other languages available on request.

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