

Package Features Include:

- Full Windows™ CE and Pocket PC operating system support on Intel® StrongARM
- Fast, low cost, low risk route to market
- Pre-qualified to BQB
- Complete user documentation
- Complete with automated Windows installer

General Description

CSR's software solution for adding Bluetooth™ wireless technology to PDA (Personal Digital Assistant) operating systems enables PDA manufacturers and accessory manufacturers to quickly and easily add Bluetooth wireless technology to PDAs. This innovative solution is fully compliant with the Bluetooth v1.1 protocol specification and leverages Bluetooth Qualification Body (BQB) conformance testing into your product.

This product offering includes serial drivers, protocol stack, user interface application program interfaces (APIs), support and documentation. It is designed to operate on any PDA and provides simple integration, powerful diagnostics and the shortest possible time to market. Combined with CSR's devices, reference designs and application support it provides a one-stop-shop.



Figure1.1: BlueCore-PDA Interface

BlueCore™-PDA-CE

Single Chip Bluetooth System

August 2002

Supported Operating Systems

The BlueCore-PDA-CE product is designed on Microsoft's Windows CE operating system.

Hardware Supported

BlueCore-PDA-CE will support the following hardware interfaces:

- Compact flash cards
- Embedded modules



Figure1.2: Connection Wizard Screen

Hardware Reference Designs

A fast time to market is ensured by using a CSR hardware reference design in combination with BlueCore-PDA software.

- Class 2 module
- Compact flash card

Class 2 Module

A low cost module based on BlueCore2-External giving +4dBm output power and -83dBm input sensitivity giving excellent real world performance. The design can be easily embedded into PDA's as an add in module or the design taken and integrated on to the main board.

Compact Flash Cards

A reference design using BlueCore2-External is available which uses a 3rd party 128byte FIFO interfacing chip with the minimum of external logic and complete with software drivers. This reference design enables a quick time to market with low costs.

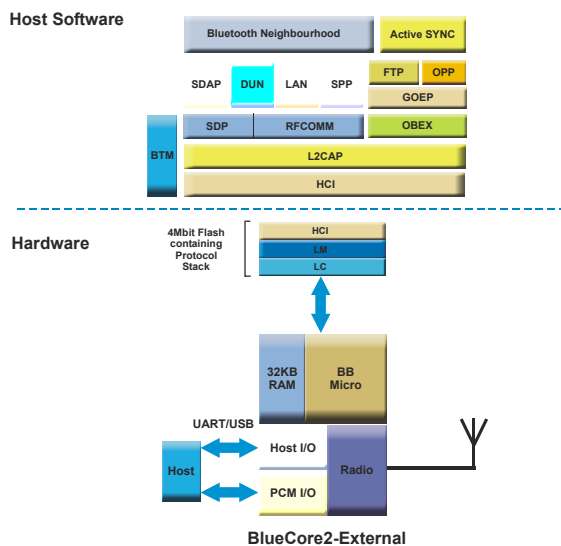


Figure 1.3: Software Architecture

Support and Training

As leader in Bluetooth wireless technology, CSR can provide an array of services from extensive technical support, product training and conformance assistance.

Software Tools

CSR also supplies its Bluesuite software tools to run on CE platforms.

BlueSuite includes:

- BlueTest
- BlueChat
- PS Tools

Device Firmware Upgrade (DFU) software for CE is available to allow upgrades for both embedded and compact flash Bluetooth devices.

Bluetooth Protocol Stack for Windows CE

The BlueCore-PDA core stack consists of the following Bluetooth protocol upper layers:

- HCI
- L2CAP
- RFCOMM
- SDP
- OBEX

The BlueCore-PDA core stack consists of the following Bluetooth protocol upper layers:

- GAP (Generic Access Profile)
- SPP (Serial Port Profile)
- SDAP (Service Discovery Application Profile)
- FTP (File transfer Profile) Client and Server
- OPP (Object Push Profile) Client and Server
- DUN (Dial up Networking) Client
- LAN (LAN Access Networking) Client
- Active SYNC
- GOEP (Generic Object Exchange Profile)

Supported Processors:

- StrongARM
- MIPS
- SH3

Ordering Information

Interface Version	Package		Order Number
	Size	Shipment Method	
BlueCore2-External-CE	8x8x1mm	2 kpcs Taped and Reeled	BC212015B-2012
BlueCore2-ROM-CE	6x6x1.4	2 kpcs Taped and Reeled	BC215143A-2012
BlueCore2-External-CE NRE ⁽¹⁾	-	CD-ROM	BCSW-CE-2012
BlueCore2-CE-Maintenance ⁽²⁾	-	CD-ROM	BCSW-CE-M-2012

Notes:

- ⁽¹⁾ NRE charge required before purchase of devices.
- ⁽²⁾ Maintenance period starts 60 days after original purchase.

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