BlueLab™

Bluetooth Development Kit

July 2002

Package Features Include:

- **The BlueLab SDK**
- **Graphical debugging tools**
- **Casira end point**
- **Full software binaries for Bluetooth stack**
- **Source code for headset, hands free and RS232 cable replacement applications**
- **Source code for the mouse application (BlueLab Professional only)**

General Description

BlueCore™ devices from CSR incorporate an on-chip RISC microcontroller, allowing highly cost-effective single-chip Bluetooth™ solutions to be developed for relatively simple embedded applications such as headsets and human interface devices (HIDs).

CSR has created the BlueLab™ Software Development Kit (SDK) to support such projects.

Applications

- **Wireless headsets for cellular handsets and PDAs**
- **Hands free systems for automotive applications**
- **RS232 cable replacement applications**
- **Bluetooth mice, keyboards and other HID devices (BlueLab Professional only)**

BlueLab is based on the proven GNU C compiler. The software allows users to create on-chip ANSI/ISO C programs in user space, while maintaining the integrity of the pre-certified Bluetooth protocol stack thanks to BlueCore's virtual machine environment.

It additionally includes a powerful Windows-driven source-level debugger offering familiar monitoring and debugging features, plus a utility providing packet-by-packet breakdowns of transmitted and received data.

Figure1.1: BlueLab Bluetooth Development Kit

BlueLab™ Data Sheet

Software Architecture

The user may write custom application code to run on BlueCore using BlueLab™ Software Development Kit (SDK). This code will then execute alongside the main BlueCore firmware. The user is able to make calls to the BlueCore firmware for various operations.

The execution environment is structured so the user application does not adversely affect the main software routines, thus ensuring that the Bluetooth stack software component does not need re-qualification when the application is changed.
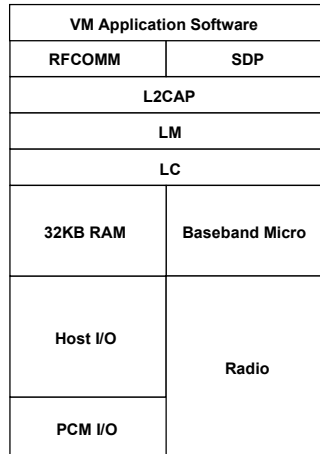

Figure 1.2: BlueLab Point Software Architecture

Ordering Information

Interface Version	Shipment Method	Order Number
BlueLab Software Development Kit	CD-ROM	BLAB002
BlueLab Professional Software Development Kit	CD-ROM	BLABPRO002

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