

Module Features Include

- Support for 11, 5.5, 2 and 1Mbps 802.11b data rates
- Simultaneous operation of both Bluetooth and 802.11b
- Supports dual diversity antennas
- Mini-PCI form factor
- Fully qualified Bluetooth component
- Minimum external components, low cost

Overview

CSR and Intersil® have developed BlueUnity, a Bluetooth and 802.11b solution which allows simultaneous operation of both Bluetooth and 802.11b. CSR utilises channel skipping in addition to MAC level switching which gives an improved level of performance as compared to other combo solutions that are on the market today. It is fully compliant with the Bluetooth v1.1 protocol specification and leverages Bluetooth Qualification Body (BQB) conformance testing into a product.

This product offering allows for simultaneous operation of both the 802.11b and Bluetooth technologies via an interface that is transparent to the user. These techniques help to deliver the most advantageous throughput and performance of any combo solution to date.

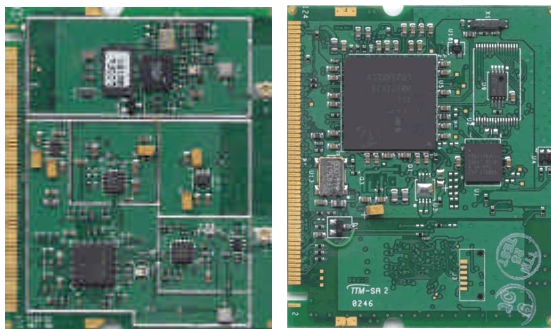


Figure 1.1: Mini-PCI Combo Solution

802.11b and Bluetooth® Combo Solution

Example Design Data Sheet

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Applications

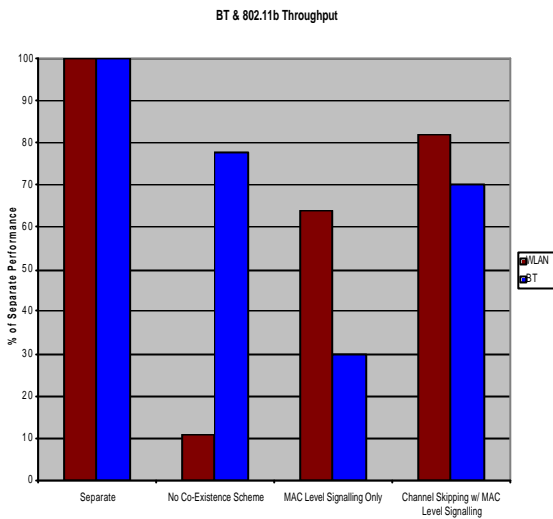
- Personal Computers (PCs)
- Personal Digital Assistants (PDAs)
- Computer Accessories (PCI , mini-PCI cards)

By using the combo solution along with CSR's BlueCore™ PC a customer can create a complete Bluetooth and 802.11b PC design. This innovative solution, although being offered in a mini-PCI form factor, could be used to create other form factors including Compact Flash, PCI or USB adapters.

Package Includes

The development package comes complete with:

- Schematics
- Gerber files
- Layout files
- BOM, including reference designators
- Mechanical and assembly drawings
- Fab drawings
- Software drivers



The data presented in Figure 1.2 shows the improvements in performance that can be obtained by implementing channel skipping in addition to the MAC level signalling.

Figure 1.2: Bluetooth and 802.11b Throughput

Ordering Information

Interface Version	Package		Order Number
	Size	Shipment Method	
BlueWiFi	-	-	Purchase through Intersil at www.intersil.com
BlueCore PC	-	CD-ROM	BCxxxxx-y-zzz-0112

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