



## PRODUCT OVERVIEW

The Marvell® Libertas® CB-55 and MB-55 are complete, ready-for-manufacturing, 'World Card' PC Card and Mini PCI Type IIIB solutions, respectively. The target applications include embedded applications for IP gateways, set-top boxes, video/audio streaming appliances, and adapters for laptop/desktop PC clients. Both reference designs utilize the Libertas 88W8030, a single-chip 2.4GHz/5GHz RF transceiver with on-chip 2.4GHz power amplifier and low noise amplifier, and the Libertas 88W8335, a highly integrated System-on-Chip (SoC) which includes CCK/OFDM baseband, MAC, embedded ARM CPU, Bluetooth® co-existence, 802.11e/h/i support, and other features. As part of the reference design, a complete set of host drivers is available for Windows and Linux with support for the latest wireless security improvements as well as additional Marvell-specific features for range improvement, 802.11b/802.11g mixed-mode performance, and audio/video streaming capabilities. Furthermore, the CB-55/MB-55 reference designs also include manufacturing tools that allow for fast, automated monitoring and calibration of wireless RF performance characteristics in the customers' own manufacturing environment.

## REFERENCE DESIGN CONTENT

The Libertas CB-55/MB-55 reference design includes the following:

- Hardware Solution Suite
  - Datasheets (88W8030 & 88W8335)
  - Functional description of the design
  - Schematic (Orcad .dsn and PDF formats)
  - Bill of Materials (BOM)
  - Layout (PADS 5.0 & PADS ASCII 3.5), Gerbers (274X format without offsets) and mechanical drawings
  - DVT report
  - System performance test plan and reports
- Software Solution Suite
  - Microsoft Windows and Linux drivers
  - Available soft access point, repeater as well as client functionality
  - GUI source code for simple customization
  - Bluetooth and WLAN co-existence guide
  - RF evaluation utility
  - Installation and SW User's Guide
- Manufacturing/Calibration Solution Suite
  - Manufacturing test SW including API source code and manual operation
  - Manufacturing test SW for Golden Unit including API source code and manual operation
  - Manufacturing Test Guide (manufacturing diagnostic program and related documentation)

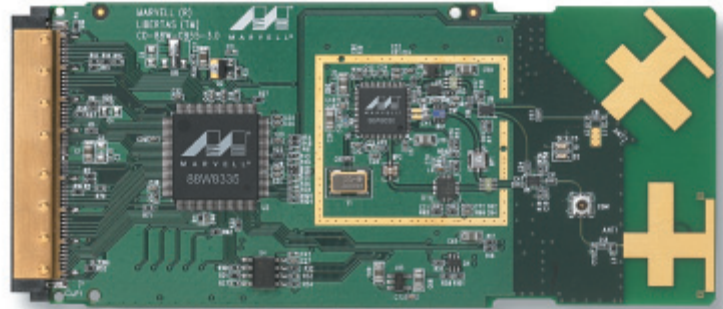


Fig 1. Marvell 'World Card' CB-55 802.11a/g/b PC Card Client Adapter Reference Design