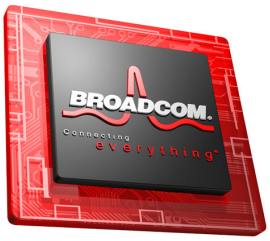
BROADCOM®
Connecting everything®

BCM94317 PRODUCT Brief



AIRFORCE ONE™ CHIP 802.11 REFERENCE DESIGN

KEY FEATURES

- **Industry's smallest IEEE 802.11b solution makes wireless LAN connectivity practical for pocket-sized electronic devices**
- **Extreme integration includes radio, baseband, MAC, power amplifier, and all other radio frequency (RF) components found on a typical wireless LAN board—making small mobile devices easier, less expensive and faster to manufacture**
- **Innovative power management reduces power consumption by up to 97% in standby mode, providing greatly extended battery life for mobile devices**
- **Cost-effective architecture with single-sided all-CMOS design eliminates over 100 components, providing more affordable wireless connectivity for consumer electronics**
- **High-performance features standard across the AirForce product line:**
  - OneDriver™
  - SmartRadio™
  - WPA
  - CCX
  - AES in hardware
  - Xpress™ technology
- **Reference designs include Secure Digital I/O, Secure Digital I/O with a Bluetooth™ option, and Compact Flash.**

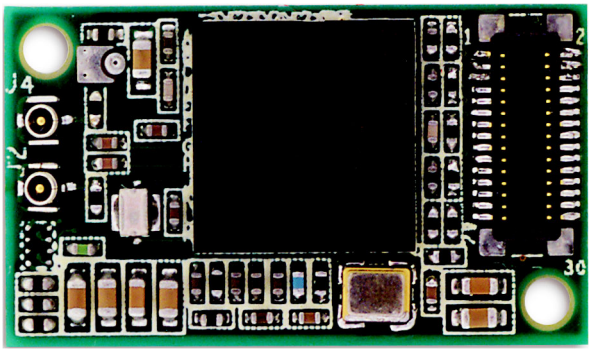
POWER MANAGEMENT

- **Innovative power management techniques improve battery life by creating deep sleep state when device is in stand-by mode**
- **Designed for low CPU utilization to ensure CPU resources are available for handheld applications**

AIRFORCE FEATURE SET

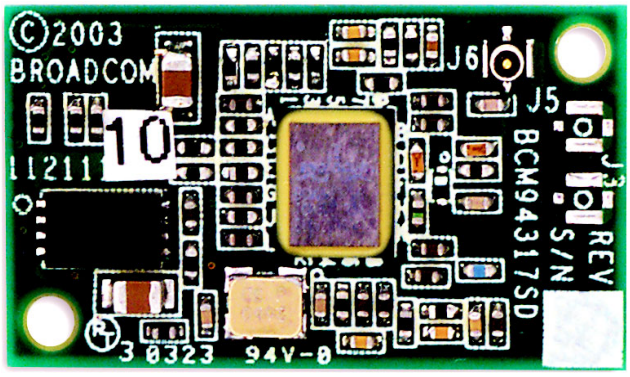
- **SmartRadio: Continuous calibration reduces test time and improves manufacturability**
- **Xpress Technology: Standards-based frame bursting improves overall network efficiency**
- **Security:**
  - WPA CERTIFIED for powerful encryption and authentication
  - -AES in hardware future-proofed for 802.11i security standard
  - Cisco Compatible Extensions (CCX) Certified
- **Worldwide Support: Global products supported with worldwide homologated design**
- **OneDriver: Single driver across all platforms 802.11a, b, and g simplifies driver update process and improves customer satisfaction**

BCM94317 Reference Design



IEEE 802.11b Side

14.8 mm x 26.5 mm



Bluetooth Side (optional)

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