

AIRFORCE™ INTEGRATED WIRELESS ACCESS POINT

HARDWARE FEATURES

- Compact, sophisticated, and low-cost access point includes chipset: BCM4712, BCM2050, and AC101L.
- 10/100 Ethernet LAN port with Auto-MDIX.
- Integrated MAC/baseband.
- 2.4 GHz PCB patch antenna.
- Antenna diversity supports both integrated and external antennas.
- RF test point footprint supports characterization.
- Provides USB device functionality and USB 1.1 host for print server and camera server functionality.
- Supports flash memory from 256 KB to 2 MB, plus 4-MB or 8-MB SDRAM.

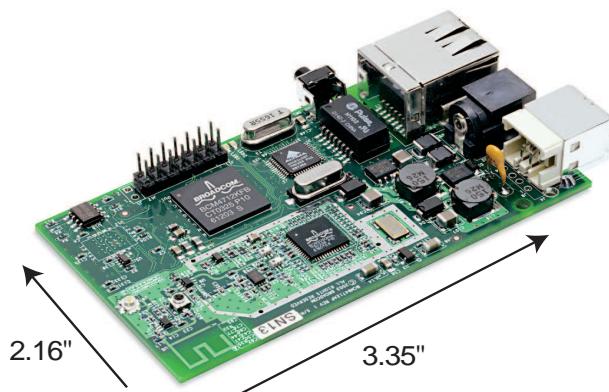
SOFTWARE FEATURES

- Production-quality reference code provides a turnkey solution and compatibility with BCM47XX wireless network processors.
- Fully tested kernel, BSP, and driver packages.
- Intuitive browser-based configuration and management tools.
- Low minimum memory requirement.
- Wireless distribution system (WDS) supports mesh networking, point-to-point, point-to-multipoint, and repeater applications.
- Wireless Ethernet bridging software connects any Ethernet device to the wireless network including Xbox, Macintosh and Set-Top Box.
- Bridging between 10/100 LAN and wireless LAN.
- Software support for Linux® and VxWorks® operating systems yields fast time-to-market.

AIRFORCE FAMILY FEATURES

- **Advanced high performance baseband processor with integrated medium access controller (MAC)** supports upcoming IEEE standards and Wi-Fi Alliance initiatives such as Wireless Multimedia Extensions (WME), 802.11i Security and 802.11e QoS for built-in future proof designs.
- **SmartRadio technology** improves wireless LAN throughput and range with advanced signal processing techniques. The all-CMOS solutions are capable of self-calibrating based on usage temperature and other environmental conditions, reconfiguring constantly for optimum performance.
- **OneDriver™** works with all AirForce™ 802.11a/b/54g solutions, simplifying the upgrade/update process for customers and end users. Driver certification and extensive operating system support, including WHQL certified Microsoft® Windows® drivers for clients, Zero configuration with Microsoft XP, and embedded drivers for Linux® and VxWorks®.
- **Comprehensive security portfolio** for both client and AP, including Cisco Compatible Extensions (CCX and CCX 2.0-client only), Wi-Fi Protected Access (WPA and WPA2) CERTIFIED, built-in hardware support for Advanced Encryption Standard (AES) protocol, Wired Equivalent Privacy (WEP) weak key avoidance, TKIP, and 802.1x.
- **Performance enhancements** including standards-based Xpress™ Technology which increases aggregate bandwidth and improves overall network performance by up to 75%, and 125 High Speed Mode™, which further increases throughput and delivers best real-world performance when the technology resides on both client and AP/Router.

BCM94712 Reference Design



Wireless Management Software

