

WICED Wi-Fi

Broadcom provides a full-featured WICED Development Kit and is working with partners to deliver turnkey hardware solutions of various form factors to readily enable Wi-Fi connectivity in system designs. The following reference WICED boards are available for development and device prototyping:

- **BCM943362WCD4_EVB:**

The BCM943362WCD4 SIP module is mounted on a full-featured USB-based evaluation and development board that is fully compatible with the WICED Wi-Fi Software Development Kit (SDK). The onboard SIP module leverages the BCM43362 802.11n 2.4 GHz Wi-Fi controller with integrated antennas and diversity to improve the quality and reliability of a wireless link, plus the STM32F205 32-bit ARM microcontroller.

- **BCM943364WCD1_EVB:**

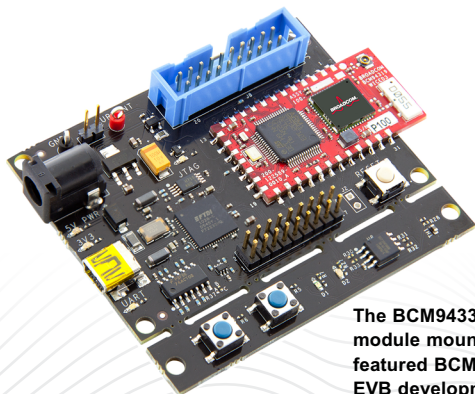
The BCM943364WCD1 SIP module is mounted on a full-featured USB-based evaluation and development board that is fully compatible with the WICED Wi-Fi Software Development Kit (SDK). Designed to be a lower cost alternative to the popular BCM43362, the onboard SIP module leverages the BCM43364 2.4 GHz WLAN IEEE 802.11b/g/n MAC/baseband/radio. In addition, the module integrates a power amplifier (PA) that meets the output power requirements of most handheld systems, a low-noise amplifier (LNA) for best-in-class receiver sensitivity, and an internal transmit/receive (iTR) RF switch, further reducing the overall solution cost and printed circuit board area. Powered by the STM32F411 32-bit ARM microcontroller, the board is also provisioned to support the authentication chip utilized by Apple's HomeKit offering.

- **BCM943341WCD1_EVB:**

The BCM943341WCD1 SIP module is mounted on a full-featured USB-based evaluation and development board that is fully compatible with the WICED Wi-Fi SDK. The onboard SIP module leverages the BCM43341 single-chip integrated quad-radio (802.11a/b/g/n Dual-band WLAN/BT/BLE 4.1/FM) and near-field communications (NFC) with integrated low-noise amplifiers (LNAs) and transmit/receive (TX/RX) switches. Powered by the STM32F407 32-bit ARM microcontroller, the board is also provisioned to support the authentication chip utilized by Apple's HomeKit offering.

- **BCM94343WWCD1_EVB:**

The BCM94343WWCD1 SIP module is mounted on a full-featured USB-based evaluation and development board that is fully compatible with the WICED Wi-Fi SDK. Designed to be a lower cost alternative to the popular BCM4334X series, the onboard SIP module leverages the BCM4343W featuring a 802.11b/g/n MAC/baseband/radio, Bluetooth 4.1 support, and an FM receiver. In addition, the module integrates a power amplifier (PA) that meets the output power requirements of most handheld systems, a low-noise amplifier (LNA) for best-in-class receiver sensitivity, and an internal transmit/receive (iTR) RF switch, further reducing the overall solution cost and printed circuit board area. Powered by the STM32F411 32-bit ARM microcontroller, the board is also provisioned to support the authentication chip utilized by Apple's HomeKit offering.

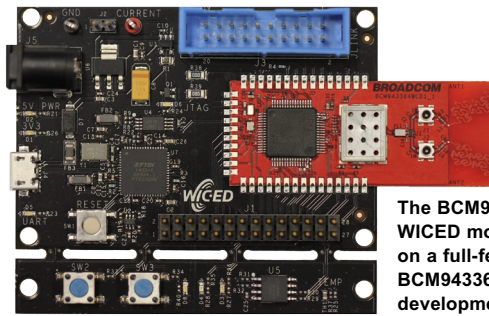


The BCM943362WCD4 WICED module mounted on a full-featured BCM943362WCD4_EVB development board.

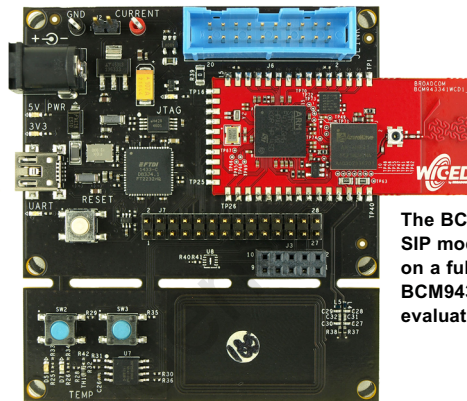
WICED Wi-Fi SOFTWARE DEVELOPMENT KIT

The WICED Wi-Fi SDK includes the following:

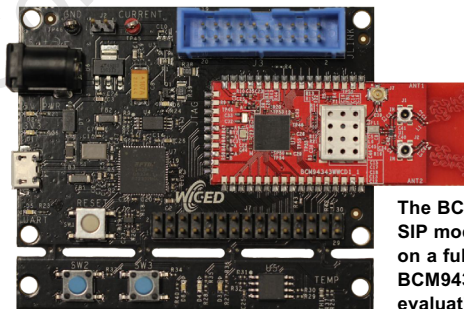
- An open-source build system and toolchain based on GNU 'make'.
- A GUI development environment based on Eclipse CDT that seamlessly integrates with a JTAG programmer and single-step, thread-aware debugger based on OpenOCD and gdb.
- A comprehensive software stack with a choice of several RTOS/TCP stack options including ThreadX/NetX, ThreadX/NetX Duo, and FreeRTOS/LwIP.
- Advanced security and networking features, incorporating SSL/TLS, IPv4/IPv6 networking, and mDNS (Bonjour) device discovery.
- WICED Application Framework incorporating production-ready features, including bootloader, flash storage API, over-the-air (OTA) upgrades, factory reset, and system monitor.
- Production-ready sample applications and application snippets that demonstrate how to use the WICED API feature set, including examples of Wi-Fi to Bluetooth (BT/BLE) bridging and Apple HomeKit (requires MFi license).
- Support for Amazon Web Services (AWS).
- Various test applications to aid manufacturing and certification.
- Full documentation included in the SDK.



The BCM943364WCD1 WICED module mounted on a full-featured BCM943364WCD1_EVB development board.



The BCM943341WCD1 SIP module mounted on a full-featured BCM943341WCD1_EVB evaluation board.



The BCM94343WWCD1 SIP module mounted on a full-featured BCM94343WWCD1_EVB evaluation board.

For additional information on WICED modules currently in production, go to:

<http://community.broadcom.com/community/wiced-wifi>

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BROADCOM
**MASS MARKET
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5300 California Avenue
Irvine, California, USA 92617
P: 949-926-5000 | F: 949-926-5203

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