

**Radicom Research, Inc.**

2148 Bering Drive • San Jose, CA 95131  
 Tel: 408-383-9006 • Fax: 408-383-9007  
[www.radi.com](http://www.radi.com)

**USB WiFi Modules****Small, Versatile, 802.11b/g/n Compatible**

The Radicom Research WiFiHU series is a secure WiFi module that easily adds WiFi connectivity to virtually any processor-based device. The module is a highly integrated single chip based 802.11b/g/n WLAN radio for embedded, low-power and extremely small form factor mobile applications.

With reliable transmissions, protocol stack and use of 1TX/2RX MIMO antenna technology, this USB wireless device can achieve over-the-air data throughput of up to 300Mbps downstream and 150Mbps upstream PHY rates using 40MHz bandwidth.

The WiFiHU protects the host with WEP/WPA/WPA2 compliant security protocols. The firmware and configuration parameters are stored in an on-board NVRAM. The modules support major Microsoft Windows and Linux operating systems including Windows 2K, XP, Vista, Win7, Linux with kernel 2.4 or 2.6.

Measuring 1" x 1.1", the WiFiHU is pin and form compatible with Radicom's Half-Inch™ USB Dial-up modems, allowing customers to easily offer dual functions (PSTN & WiFi) options to their new designs.

**Applications:**

- **Automotive Management**
- **Embedded Systems**
- **Video Game Consoles**
- **Portable Systems**
- **POS Terminals**
- **Healthcare Devices**
- **Home Automations & Security**
- **Cable Replacements**

**FEATURES:**

- Designed to meet the IEEE802.11 b/g/n™ WLAN standards
- -40°C to +85°C extended operating temperature
- USB 2.0 hot swappable interface
- Compatible with USB1.1 and USB2.0 host controllers
- Small size: 1.0" x 1.1" x 0.25"(H)
- Operates in 2.4GHz frequency bands
- Fast receiver Automatic Gain Control (AGC)
- 300Mbps receive rate and 150Mbps transmit rate using 40MHz bandwidth
- 150Mbps receive rate and 75Mbps transmit rate using 20MHz bandwidth
- 1 x 2 MIMO technology for exceptional reception and throughput
- Wi-Fi security using WEP, WPA and WPA2
- 2 U.FL TX/RX antenna ports (Model: WiFiHU-c)
- 2 chips antennas on board optional (Model: WiFiHU-a)
- LED driver output for visual monitoring of link & activity
- Windows 2K, XP, Vista, Win7 support
- Linux 2.4/2.6 support
- RoHS compliant