Radicom Research, Inc.

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Radicom
Affordable Modem Technology

USB WiFi Modules

SoftAP Support, Small, Versatile, 802.11b/g/n Compatible

The Radicom Research WiFiHU2 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 IEEE802.11b/g/n WALN radio for embedded, low-power and extremely small form factor mobile applications.

With reliable transmissions, protocol stack and use of 2TX/2RX MIMO antenna technology, this USB Wireless LAN (WLAN) device has extended transmission and receiving ranges with good minimum sensitivity. The WiFiHU2 series can achieve over-the-air data throughput of up to 300Mbps downstream and 300Mbps upstream PHY rates using 40MHz bandwidth.
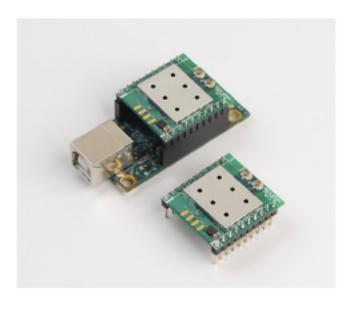
The WiFiHU2 series feature SoftAP support. It can turn your Internet connected PC or Laptop into a WiFi Wireless Access Point. So any nearby WiFi devices such as iPhone, iPod, PDA, can connect to the Internet through your sharing.

The WiFiHU2 family supports fast receiver Automatic Gain Control (AGC) with synchronous and asynchronous control loops among antennas, antenna diversity functions, and adaptive transmit power control functions to obtain better performance in the analog portions of the transceiver.

The WiFiHU2 protects the host with compliance of WPA/WEP/WEP2 security protocols. The firmware and configuration parameters are stored in on-board NVRAM. The modules support Windows and Linux O/S including Windows 2K, XP, Vista, Win7, Linux kernel 2.4 and 2.6.

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

FEATURES:

- USB 2.0 hot swappable interface
- IEEE802.11b/g/n compliant
- On-board dual chips antennas
- On-board 2 antenna ports for external antennas (optional)
- SoftAP (Access Point) support
- Small size: 1.0" x 1.1" x 0.25" (H)
- -40°C to +85°C operating temperature
- Backward compatible with 802.11b/g devices
- 2 x 2 MIMO technology for exceptional reception and throughput
- 300Mbps receiving / transmitting PHY rate using 40MHz bandwidth
- 150Mbps receiving / transmitting PHY rate using 20MHz bandwidth
- Windows, Linux O/S support
- FCC, IC & CE (pending)
- RoHS compliant