

**Model Number : WUB2000H10 (Preliminary)**

**Wireless-n a/b/g USB , Dual Band 2.4/5GHz 2T2R Range Extender**



WUB2000H10 is a 1000mW 802.11n ,a/b/g wifi USB adapter (2.4GHz: 1W , 5GHz:500mW) designed specifically for smart handheld device/laptop/desktop PC and peripherals with standard USB2.0 slot. 2Tx2R design overlaying the signals of multiple radios, WUB2000H10 new standards in throughput and range to deliver the ultimate wireless triple play experience for video , voice, and data transmission in the home , for business , and on the road.

2Tx/ 2Rx maximized link data rate up to 300Mbps(Tx) /300Mbps(Rx) and very effectively sustains the 802.11n radio signal to optimizes for higher throughput over range .

### **Product Benefits**

#### **Dramatic range and performance increase**

WUB2000H10 is a 1000mW High Power multimedia USB adapter that reliably distributes multimedia content over the standard 802.11 Wi-Fi . Unlike any other in-home Wi-Fi USB adapter, WUB2000H10 integrates a long-range power amplifier to deliver unmatched reliability and performance at long distance.

#### **External SMA Connector**

WUB2000H10 USB Adapter is designed with range extension in mind providing an external SMA connector for the convenience to connect external high gain Omni Directional or Patch Directional antenna's for coverage extension along with the versatility of Wireless-N high speed transmission in a single solution

#### **Home / Office Desktop PC Application**

One no longer needs to pull apart desktop PC's to install Wireless PCI Card. With WUB2000H10 it's as simple as plug-and-play from the USB port for mission critical wireless applications where user's can determine the distance required by choosing a suitable antenna required for the application.

## Hot Spot / Public Area Internet Access

If one was using a High Gain Router or in Wireless HotSpot scenario's user's can receive the signals but cannot send back due to the poor coverage area of standard wireless products where the wireless signals does not have enough strength to send back to High Gain stations. With WUB2000H10 one can overcome the problems of sending signals back to High Gain Wireless Router or HotSpot due to integration of High Power Amplifier Wireless-N USB2.0 Adapter.

WUB2000H10  
hard-to-reach  
coverage to  
require additional  
requires no



signals to a superior distance, into reflective corners and Spots" environments, one will benefit from the increased ' without extra Access Point or Client Bridge which would WUB2000H10 is self powered through the USB port and you can stay connected wherever you go.

## Features

- 2.4GHz , 1000mW High Power
- 5GHz , 500mW
- Work with detachable antenna
- Providing 2 \* SMA connector for High Gain Antenna
- Compact size for greater flexibility
- USB2.0 interface in 2Tx/2Rx dongle design
- Windows 2000/XP/Vista,Win CE , Mac, driver supports provide immediate 11n a/b/g wifi and management capability
- 802.11n interoperates with other chipsets
- Enables bandwidth of up to 300Mbps(Tx) , 300Mbps(Rx) link rate
- Support IEEE 802.11a/802.11b/802.11g backward compatibility allowing interoperability among multiple wifi network
- Smart Clear Channel Assessment (CCA) allows legacy-friendly operation with 802.11a , 802.11b and 802.11g devices
- 2Tx/2Rx design architecture optimizes for higher and greater reliable throughput over range
- Supports 802.11e prioritizing voice traffic over data traffic
- Security : WEP 64/128 bits TKIP/802.11i compliant AES –CCMP encryption WPA-PSK,WPA2-PSK,802.11x,EAP-TLS,EAP-TTLS,PEAP-TL,



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PEAP(EAP-GTC),PEAP(EAP-MSCHAPv2),

- Support WPA/WPA2-Personal, WPA/WPA2-Enterprise
- QoS :WMM,WMM-PS
- Support WPS Hardware and Software Push Button
- Support 802.11 d , 802.11h
- Support DFS1.0 and 2.0
- Support WHQL
- Support Set Wizard to do quickly configuration
- RTS & Fragment Threshold support
- WOL(Wake On Lan) Support
- Software AP function support

<b>【WUB2000H10】 Electrical Specifications</b>	
<b>Main Chip</b>	Ralink 3572
<b>Interface</b>	USB 2.0 Standard, USB 1.1 Compliant
<b>Standards Conformance</b>	IEEE802.11 / 802.11b / 802.11g/802.11a/802.11n ARIB STD-T66 compliant IEEE802.11 d, e,h,i,j
<b>Data Transfer Rate</b>	IEEE802.11a : 6/9/12/18/24/36/48/54 Mbps (auto sensing) IEEE802.11b : 1 / 2 / 5.5 / 11Mbps (auto sensing) IEEE802.11g : 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54Mbps (auto sensing) IEEE802.11n : 300Mbps (Tx) , 300Mbps (Rx)
<b>Access Method</b>	Infrastructure Mode, Ad-Hoc Mode (802.11 Ad-Hoc), Roaming
<b>Security</b>	WEP,TKIP,AES-CCMP,WPA-PSK,WPA2-PSK,802.1x, EAP-TLS,EAP-TTLS,PEAP(EAP-GTC),PEAP(EAP-MSCHAPv2), Jumpstar2.0
<b>Quality of Service (QOS)</b>	802.11e , WMM , WMMPS
<b>Software AP on WinXP</b>	Power Saving ,WMM Hardware –WEP (64 and 128 bit) /WPA/WPA2 MAC address filter(Access or Reject list) Support ICS setting on-WinXP
<b>International Regulation</b>	802.11d+h
<b>Frequency Range</b>	IEEE802.11b/g/n : 2.412 ~ 2.462GHz (US & Canada) 2.412 ~ 2.472GHz (Europe) 2.412 ~ 2.484GHz (Japan) IEEE802.11a/n (draft) : 5.15 ~ 5.35GHz , 5.725 ~ 5.850GHz (US & Canada) 5.15 ~ 5.35GHz , 5.470 ~ 5.725GHz (Europe) 4.90 ~ 5.00GHz , 5.03 ~ 5.091GHz ,5.15 ~ 5.25GHz (Japan)



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<b>Wireless Medium</b>	OFDM & DSSS (with Barker coding and CCK for backward compatibility with 802.11b)
<b>Media Access Protocol</b>	CSMA / CA
<b>Modulation Method</b>	DSSS with CCK,DQPSK,DBPSK OFDM with BPSK,QPSK,16QAM,64QAM
<b>Channel Space</b>	20Mhz/40Mhz
<b>Operating Channels</b>	1~11 (U.S. & Canada), 1~13 (channel availability depends on local regulations)
<b>Transmit Power Settings</b>	2.4GHz : 30dBm (CCK) , 26dBm(OFDM) 5GHz : 27dBm(CCK) , 23dBm(OFDM)
<b>Receiver Sensitivity</b>	-97dBm
<b>RF Connector</b>	SMA connector
<b>LED Indicators</b>	Power / Link
<b>Power Consumption</b>	To be released
<b>Operating systems</b>	Windows XP, Windows2000, Windows ME, 98SE,CE, Linux
<b>Environmental &amp; Mechanical Characteristics</b>	
<b>Operating Temperature</b>	32 °F ~ 131 °F (0 °C ~ 55 °C)
<b>Storage Temperature</b>	-13 °F ~ 158 °F (-20 °C ~ 70 °C)
<b>Operating Humidity</b>	10% to 80% Non-Condensing
<b>Storage Humidity</b>	5% to 90% Non-Condensing
<b>Dimension</b>	
<b>Weight</b>	