Order Information: WUB1900H5

Wireless-b/g/n 1T1R 500mW Multimedia USB adapter (w/SMA Connector)

Product Benefits

Dramatic range and performance increase

WUB1900H5 is a 500mW 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, WUB1900H5 integrates a long-range power amplifier to deliver unmatched reliability and performance at long distance.

External SMA Connector

WUB1900H5 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 WUB1900H5 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 WUB1900H5 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.

WUB1900H5 will amplify your wireless signals to a superior distance, into reflective corners and hard-to-reach areas. In Wireless "Hot Spots" environments, one will benefit from the increased coverage to access "Hot Spot Gateway " without extra Access Point or Client Bridge which would require additional power adapters. The WUB1900H5 is self powered through the USB port and requires no external power adapters so you can stay connected wherever you go.

Features

- 2.4GHz , 500mW High Power
- Providing SMA connector for High Gain Antenna
- Nano size for greater flexibility
- Also compatible with USB 1.1 desktop and notebook computers
- Plug-and-Play Compatible with windows 98SE, 2000, Millennium, XP (32/64bit),Vista
- Security : WEP 64/128 bits TKIP/802.11i compliant AES –CCMP encryptionWPA-PSK,WPA2-PSK,802.1x,EAP-TLS,EAP-TTLS,PEAP-TL,PEAP(EAP-GTC),PEAP(EAP-MSCHAPv2), WPS
- Support WPA/WPA2-Personal, WPA/WPA2-Enterprise
- QoS :WMM
- Support WPS Hardware and Software Push Button
- Support 802.11 d
- Support WHQL
- Support Set Wizard to do quickly configuration
- RTS & Fragment Threshold support
- Software AP function support

Advance Feature

- Roaming
- Japan Mid Band
- WoW and Dual Core support
- 802.11b/g adhoc

Attention

With standard 1 USB port the power consumption is 5V @ 500mA supporting only up to 200mW for WUB1900H5. It is recommended to use a Y-cable utilizing 2 USB Ports to increase the power consumption to 5V @ 870mW thus allowing maximum support of 500mW for the WUB1900H5. These figures are based on theoretical analysis.

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【WUB1900H5】Electrical Specifications			
Interface	USB 2.0 Standard, USB 1.1 Compliant		
Standards Conformance	IEEE802.11 802.11b / 802.11g /802.11n compliant IEEE802.11 d, e,h,i,j		
TX/RX	1 TX 1RX		
Data Transfer Rate	IEEE802.11b：1 / 2 / 5.5 / 11Mbps (auto sensing) IEEE802.11g：6 / 9 / 12 / 18 / 24 / 36 / 48 / 54Mbps (auto sensing) Wireless n : 150Mbps (TX) /150MBps (RX)		
Access Method	Infrastructure Mode, Ad-Hoc Mode (802.11 Ad-Hoc), Roaming		
Security	WEP,TKIP,AES-CCMP,WPA-PSK,WPA2-PSK,802.1x, , EAP-TLS,EAP-TTLS,PEAP(EAP-GTC),PEAP(EAP-MSCHAPv2), WPS		
Quality of Service (QOS)	802.11e , WMM		
Software AP for XP, Vista	Power Saving ,WMM Hardware –WEP (64 and 128 bit) /WPA/WPA2 MAC address filter(Access or Reject list) Support ICS setting on-Win XP, Vista		
International Regulation	802.11d		
Frequency Range	IEEE802.11b：2.4 to 2.497GHz IEEE802.11g：2.4 to 2.4835GHz IEEE802.11n (draft compliance) : 2.4GHz		
Wireless Medium	OFDM & DSSS (with Barker coding and CCK for backward compatibility with 802.11b)		
Media Access Protocol	CSMA / CA		
Bandwidth	20MHz / 40MHz		
Modulation Method	DSSS with CCK,DQPSK,DBPSK OFDM with BPSK,QPSK,16QAM,64QAM		
Operating Channels	1~11 (U.S. & Canada), 1~13 (channel availability depends on local regulations), 1~14 (Japan)		
Transmit Power Settings	EIRP with 2dBi SMA Omni Antenna		
	IEEE 802.11b mode：		
	Data Rate	2 USB Port	1 USB Port
	1Mbps	26±1dBm@600mA(max.)	23.5±1dBm@500mA(max.)
	2Mbps	25±1dBm@550mA(max.)	23±1dBm@490mA(max.)
	5.5Mbps	23.5±1dBm@500mA(max.)	22.5±1dBm@470mA(max.)
	11Mbps	22.5±1dBm@470mA(max.)	22.5±1dBm@470mA(max.)
	IEEE 802.11g mode：		
	Data Rate	2 USB Port	1 USB Port
	6Mbps	23.5±1dBm@500mA(max.)	23.5±1dBm@500mA(max.)

	9Mbps	22.5±1dBm@480mA(max.)	22.5±1dBm@480mA(max.)
	12Mbps	22±1dBm@460mA(max.)	22±1dBm@460mA(max.)
	18Mbps	21.5±1dBm@440mA(max.)	21.5±1dBm@440mA(max.)
	24Mbps	20.5±1dBm@420mA(max.)	20.5±1dBm@420mA(max.)
	36Mbps	19.5±1dBm@400mA(max.)	19.5±1dBm@400mA(max.)
	48Mbps	18.5±1dBm@390mA(max.)	18.5±1dBm@390mA(max.)
	54Mbps	17.5±1dBm@380mA(max.)	17.5±1dBm@380mA(max.)
	IEEE 802.11 n mode：		
	11n-HT Mode 20MHz：		
	Data Rate	2 USB Port	1 USB Port
	MCS0	21.5±1dBm@470mA(max.)	21.5±1dBm@470mA(max.)
	MCS1	20.5±1dBm@450mA(max.)	20.5±1dBm@450mA(max.)
	MCS2	19.5±1dBm@430mA(max.)	19.5±1dBm@430mA(max.)
	MCS3	18.5±1dBm@390mA(max.)	18.5±1dBm@390mA(max.)
	MCS4	17.5±1dBm@380mA(max.)	17.5±1dBm@380mA(max.)
	MCS5	16.5±1dBm@370mA(max.)	16.5±1dBm@370mA(max.)
	MCS6	15.5±1dBm@360mA(max.)	15.5±1dBm@360mA(max.)
	MCS7	14.5±1dBm@350mA(max.)	14.5±1dBm@350mA(max.)
	11n-HT Mode 40MHz：		
	Data Rate	2 USB Port	1 USB Port
	MCS0	20.5±1dBm@480mA(max.)	20.5±1dBm@480mA(max.)
	MCS1	19.5±1dBm@460mA(max.)	19.5±1dBm@460mA(max.)
	MCS2	18.5±1dBm@440mA(max.)	18.5±1dBm@440mA(max.)
	MCS3	17.5±1dBm@420mA(max.)	17.5±1dBm@420mA(max.)
	MCS4	16.5±1dBm@400mA(max.)	16.5±1dBm@400mA(max.)
	MCS5	15.5±1dBm@380mA(max.)	15.5±1dBm@380mA(max.)
	MCS6	14.5±1dBm@37mA(max.)	14.5±1dBm@370mA(max.)
	MCS7	13.5±1dBm@360mA(max.)	13.5±1dBm@360mA(max.)
Receiver Sensitivity	IEEE 802.11b mode： 1Mbps：-95dBm 2Mbps：-93 dBm 5.5Mbps：-90dBm 11Mbps：-86dBm IEEE 802.11g mode： 6Mbps：-86dBm 9Mbps：-84dBm 12Mbps：-82dBm 18Mbps：-80dBm		

	24Mbps：-78dBm 36Mbps：-76dBm 48Mbps：-74dBm 54Mbps：-72dBm IEEE 802.11 n mode： 11n-HT Mode 20MHz： MCS0：-86dBm MCS1：-84dBm MCS2：-82dBm MCS3：-80dBm MCS4：-77dBm MCS5：-73dBm MCS6：-70dBm MCS7：-68dBm 11n-HT Mode 40MHz： MCS0：-83dBm MCS1：-81dBm MCS2：-79dBm MCS3：-77dBm MCS4：-74dBm MCS5：-71dBm MCS6：-68dBm MCS7：-65dBm
External Antenna Type	SMA R/P connector
LED Indicators	Power / Link
Operating systems	Windows Vista 64/32, Windows XP 64/32, Window 2000 MAC OS 10.4/10.5
Environmental & Mechanical Characteristics	
Operating Temperature	32 °F ~ 131 °F (0 °C ~ 55 °C)
Storage Temperature	-13 °F ~ 158 °F (-20 °C ~ 70 °C)
Operating Humidity	10% to 80% Non-Condensing
Storage Humidity	5% to 90% Non-Condensing
Dimension	To be Released
Weight	To be Released