PRODUCT DATASHEET

Dual-Band Wireless USB 2.0 Adapter NUB-8301

2.4 / 5 GHz 802.11 a/b/g 54 Mbps

The USB 2.0 wireless card supporting 802.11b/g (2.4GHz) radio operation. It provides high-speed wireless connection with data rate up to 54Mbps. The shirking dimension, light weight & lower power consumption design can easily integrate into a wide range of computer and Laptop devices.

To protect your wireless connectivity, the high-speed wireless USB adapter can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA and WPA2(AES)



Features	Benefits
High Speed Data Rate up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming.
WPA/WPA2 (IEEE 802.11i), WEP 64/128 Support	Powerful data security.
IEEE802.1x Client Support (TLS, TTLS, LEAP)	Enhances authentication and security.
WMM (IEEE 802.11e) standard support	Wireless Multimedia Enhancements Quality of Service support (QoS) / enhanced power saving for Dynamic Networking
USB 2.0/1.1	USB 2.0 interface and compatible with USB 1.1

* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice. 6/6/2006

Technical Specifications

Data Rates

802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54, Mbps

802.11b: 1, 2, 5.5, 11Mbps

Standards / Compliance

IEEE802.11, IEEE802.11a, IEEE802.11g, IEEE802.11b, IEEE802.1h, IEEE802.1x

Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE, RoHS and WEEE

Operating Voltage

3.3V

Status LEDs

RF link activity

Drivers

Windows 98SE/ME/2000/XP

RF Information

Frequency Band

802.11a: 5.15~5.25GHz, 5.25~5.35GHz, 5.725~5.825GHz
802.11b/g: U.S., Europe and Japan product covering 2.4 to 2.484 GHz, programmable for different country regulations

Media Access Protocol

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

Modulation Technology

802.11a/g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
802.11b: DSSS (DBPSK, DQPSK, CCK)

Operating Channels

11 for North America, 14 for Japan, 13 for Europe

Receive Sensitivity (Typical)

- 5.15~5.35GHz
  6Mbps@ -90dBm;
  54Mbps@ -72dBm
- 5.47~5.725GHz
  6Mbps@ -90dBm;
  54Mbps@ -72dBm
- 5.725~5.825GHz
  6Mbps@ -89dBm;
  54Mbps@ -72dBm
- 2.412~2.472G(IEEE802.11g)
  6Mbps@ -90dBm;
  54Mbps@ -73dBm
- 2.412~2.472G(IEEE802.11b)
  11Mbps@ -87dBm;
  1Mbps@ -94dBm

Available Transmit Power

- 5.15~5.35 GHz
  15± 2dBm @6Mbps
  12 ± 2dBm @54Mbps
- 5.725 ~ 5.825GHz
  15 ± 2dBm @6Mbps
  12 ± 2dBm @54Mbps
- 2.412~2.483G (IEEE802.11g)
  17 ± 2dBm @6Mbps
  15 ± 2dBm @54Mbps
- 2.412~2.472G(IEEE802.11b)
  18 ± 2dBm @1~11Mbps

Antenna

Integrated with built-in diversity

Networking

Topology

Ad-Hoc, Infrastructure

Security

IEEE802.1x support for LEAP/PEAP

WPA/WPA2 – Wi-Fi Protected Access (AES, 64,128,152-WEP with shared-key authentication)

Physical

Form Factor

USB 2.0 / 1.1 dongle

Dimensions (HxWxD)

79.5(L) mm x 26(W) mm x 10.4(H) mm

Weight

40 g/ 1.6oz

Environmental

Temperature Range

Operating: -0°C to 55°C
Storage: -20°Cto 75°C

Humidity (non-condensing)

5%~95% Typical

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