

# PRODUCT DATASHEET

Atheros Wireless USB 2.0 Adapter

NUB-362(EXT)

2.4 GHz

802.11 b/g

108 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 108Mbps. The shirking dimension, light weight & lower power consumption design can easily integrate into a wide range of OEM/ODM device

NUB-362(EXT) has high power and high sensitivity. Further, it provides an external Antenna which can easily advance your distance and performance more flexible.

To protect your wireless connectivity, the high-speed wireless USB adapter can encrypt all wireless transmissions through 64/128/152-bit WEP data encryption and also supports WPA. With the High-Speed Wireless USB Adapter, you will experience the best wireless connectivity available.



Features	Benefits
High Speed Data Rate up to 108Mbps in Super G mode	Capable of handling heavy data payloads such as MPEG video streaming.
High Output Power up to 23 dBm	Excellent output power spreads the operation distance
Advanced Encryption Standard (AES), Temporal Key Integrity Protocol (TKIP) and Wired Equivalent Private (WEP)	Powerful data security.
IEEE802.1x Client Support	Enhances authentication and security.
Support for 802.11e standard	Wireless Multimedia Enhancements Quality of Service support (QoS)
Advanced Power Management	Low power consumption in power saving mode up to 98%.
Support eXtended Range technology	eXtended Range technology give Wi-Fi products twice the range of existing designs
External (changeable) Antenna	Changeable Antenna provides users more flexible to select other antennas

\* 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.

10/2/2005

## Technical Specifications

### Data Rates

**802.11g:** 6, 9, 12, 18, 24, 36, 48, 54, and  
Up to 108 Mbps

**802.11b:** 1, 2, 5.5 and 11Mbps

### Standards / Compliance

IEEE802.11, IEEE802.11g, IEEE802.11b, draft  
IEEE 802.11e, and i standards, IEEE802.1x

### Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

### Operating Voltage

5 V  $\pm$  0.25V

### Status LEDs

RF link activity

### Drivers

Windows 98SE/ME/2000/XP

### RF Information

#### Frequency Band

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

**802.11g:** 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, 2 for Spain, 4 for France

#### Receive Sensitivity (Typical)

- 2.412~2.472G(IEEE802.11g)  
6Mbps@ -91dBm;  
54Mbps@ -76dBm
- 2.412~2.472G(IEEE802.11b)  
11Mbps@ -91dBm;  
1Mbps@ -96dBm

#### Available transmit power

##### FCC (Typical)

- 2.412~2.472G(IEEE802.11g)  
22 dBm @ 6 ~ 24 Mbps  
21 dBm @ 36 Mbps  
20 dBm @ 48 Mbps  
19 dBm @ 54 Mbps
- 2.412~2.472G(IEEE802.11b)  
22 dBm @1~11Mbps

##### ETSI (Typical)

- 2.412~2.472G(IEEE802.11g)  
20 dBm @ 6 ~ 24 Mbps  
20 dBm @ 36 Mbps  
20 dBm @ 48 Mbps  
19 dBm @ 54 Mbps
- 2.412~2.472G(IEEE802.11b)  
20 dBm @1~11Mbps

### Antenna

Dipole antenna (2dBi detachable  
antenna)

### Networking

#### Topology

Ad-Hoc, Infrastructure

#### Security

IEEE802.1x support for LEAP/PEAP  
WPA – Wi-Fi Protected Access (AES,  
64,128,152-WEP with shared-key  
authentication)

### Physical

#### Form Factor

USB 2.0 / 1.1

#### Dimensions (LxWxH)

75.2(L) mm x 53.9(W) mm x 14(H) mm

#### Weight

40 g/ 1.5oz

### Environmental

#### Temperature Range

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

#### Humidity (non-condensing)

5%~95% Typical

#### Package Contents

One CD-ROM with User's Manual  
and Drivers  
One USB dongle  
One Antenna (2dBi)

#### Related Product(s)

11 a/b/g High-power Wireless USB 2.0  
Adapter  
[NUB-862](#)  
11 a/b/g Wireless USB 2.0 Adapter  
[NUB-8301](#)

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