



EnGenius® DATASHEET

Atheros Wireless USB 2.0 Adapter		EUB-862 EXT2
2.4/5GHz	802.11 a/b/g	108 Mbps

The USB 2.0 wireless card supporting dual-band 802.11a/b/g (2.4GHz & 5GHz) radio operation. It provides high-speed wireless connection with data rate up to 108Mbps.

EUB-862 EXT2 has high power and high sensitivity. It can advance your distance and performance.

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 and WPA2. Dynamic Frequency Selection (DFS) puts your network on the cleanest channel in your location. 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 A/G mode	Capable of handling heavy data payloads such as MPEG video streaming.
High Output Power up to 22dBm in FCC; 20dBm in ETSI	More high power can advance the 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 draft IEEE 802.11h and j standard	Extended tuning range (2.300-2.500 & 4.900-5.850 GHz) for worldwide use Dynamic Frequency Selection/Transmit Power Control (DFS/TPC) for international operation
Support for 802.11e standard	Wireless Multimedia Enhancements Quality of Service support (QoS)
Two detachable antennas with 2dBi for 2.4GHz/5GHz	Changeable Antenna provides users more flexible to select other antennas
Support eXtended Range technology	eXtended Range technology give Wi-Fi products twice the range of existing designs

* 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.

Technical Specifications

Data Rates

- 802.11a:** 6, 9, 12, 18, 24, 36, 48, 54, up to 108 Mbps
802.11g: 6, 9, 12, 18, 24, 36, 48, 54, up to 108 Mbps
802.11b: 1, 2, 5.5, 11Mbps

Standards / Compliance

IEEE802.11, IEEE802.11a, IEEE802.11g, IEEE802.11b, draft IEEE 802.11e, f, and h standards, IEEE802.1x

Regulation Certifications

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

Operating Voltage

5 V \pm 0.25V

Status LEDs

RF link activity

Drivers

Windows 2000/XP/ME/98/Vista

RF Information

Frequency Band

- 802.11a:** 5.15~5.25GHz, 5.25~5.35GHz, 5.50~5.70GHz, 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

- 802.11b/g**
11 for North America, 14 for Japan, 13 for Europe
802.11a
US/Canada: 12 non-overlapping channel (5.15~5.35GHz, 5.725~5.825GHz)
Europe: 19 non-overlapping channel (5.15~5.35GHz, 5.50~5.825GHz)
Japan: 4 non-overlapping channel (5.15~5.25GHz)
China: 5 non-overlapping channel (5.725~5.85GHz)

Receive Sensitivity (Typical)

- 5150~5350MHz
6Mbps @ -90dBm;
54Mbps @ -74dBm
- 5470~5725MHz
6Mbps @ -90dBm;
54Mbps @ -73dBm
- 5725~5850MHz
6Mbps @ -89dBm;
54Mbps @ -72dBm
- 2412~2472MHz(IEEE802.11g)
6Mbps @ -91dBm;
54Mbps @ -75dBm
- 2412~2472MHz(IEEE802.11b)
11Mbps @ -91dBm;
1Mbps @ -96dBm

Available transmit power

FCC (Typical)

- 4920~5080 & 5180~5240 MHz
17 dBm @6Mbps
12 dBm @54Mbps
- 5260~5320 MHz
17 dBm @6Mbps
12 dBm @54Mbps
- 5470~5725 MHz
17 dBm @6Mbps
12 dBm @54Mbps
- 5725 ~ 5850MHz
17 dBm @6Mbps
12 dBm @54Mbps
- 2412~2462MHz(IEEE802.11g)
Up to 22 dBm @ 6 ~ 24 Mbps
20 dBm @ 36 Mbps
19 dBm @ 48 Mbps
18 dBm @ 54 Mbps

- 2412~2472MHz(IEEE802.11b)
Up to 22 dBm @1~11Mbps

ETSI (Typical)

- 4920~5080 & 5180~5320 MHz
17 dBm @6Mbps
12 dBm @54Mbps
- 5470 ~ 5725MHz
17 dBm @6Mbps
12 dBm @54Mbps
- 5725 ~ 5850MHz

17 dBm @6Mbps

12 dBm @54Mbps

- 2412~2472MHz(IEEE802.11g)
20 dBm @ 6 ~ 24 Mbps
20 dBm @ 36 Mbps
20 dBm @ 48 Mbps
19 dBm @ 54 Mbps
- 2412~2472MHz(IEEE802.11b)
20 dBm @1~11Mbps

Antenna

11a/b/g Detachable antenna (2dBi antenna gain) x 2

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

Dimensions (HxWxD)

77.0(L) mm x 60.0(W) mm x 17.0(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
Two Detachable antennas (2dBi for 2.4/5GHz)

Related Product(s)

11 b/g High-power Wireless USB 2.0 Adapter
EUB-362 / EUB-362(EXT)
11 a/b/g Wireless USB 2.0 Adapter
EUB-8301

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