

# AWUS050NH

## 802.11n/a/b/g Long-Rang USB Adapter

AWUS050NH IEEE 802.11a/b/g/n Wireless USB adapter provides users to launch IEEE 802.11a/b/g/n wireless network at 150/300 Mbps in the 2.4GHz/5.8GHz band, which is also compatible with IEEE 802.11a/b/g wireless devices at 11/54 Mbps. You can configure AWUS050NH with ad-hoc mode to connect to other 2.4GHz/5.8GHz wireless computers, or with Infrastructure mode to connect to a wireless AP or router for accessing to Internet.

AWUS050NH includes a convenient Utility for scanning available networks and saving preferred networks that users usually connected with. Security encryption can also be configured by this utility.



### Features

- Compatible with IEEE 802.11n draft 3.0, 802.11a/b/g wireless standards
- 2.4GHz and 5.8GHz frequency band, MIMO (Multiple Input Multiple Output)
- Complies with Universal Serial Bus Rev. 2.0 specifications
- High speed transfer TX data rate up to 150 Mbps
- High speed transfer RX data rate up to 300 Mbps
- Supports WPS by S/W
- Supports wireless data encryption with 64/128-bit WEP, WPA, WPA2, TKIP, AES
- Wide Range coverage
- Compliant with FCC Part 15.247 for US, ETS 300 328 for Europe
- Supports driver for Windows 2000, XP 32/64, Vista 32/64, Linux (2.4.x/2.6.x), Mac (10.4.x/10.5.x) Power PC& PC.

### Product General

- Standards
  - Wireless: IEEE 802.11a/b/g/n
  - USB 2.0 standard
- Data Rate
  - 802.11b: Up to 11 Mbps
  - 802.11g: 54Mbps
  - 802.11n: 108Mbps
- OS Supported
  - Windows vista
  - Windows XP
  - Linux
  - Mac OX

### Physical Specification

- Interface
  - Mini USB connector
- Antenna Type
  - 1 x 2.4/5GHz RP-SMA connector with Antenna
  - 1 x Dual band print antenna

### Environment Specification

- Operating Temp
  - 0°C ~ +50°C
- Storage
  - -10°C ~ +65°C
- Humidity
  - 5%~98% non-condensing

### For further details:

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## 802.11n/a/b/g Long-Rang USB Adapter

### Hardware

- One LED :
  - Power / Status: steady green
  - Wireless Act: flash
- Frequency Range
  - IEEE 802.11b/g
    - 2412 ~ 2462 MHz (N.A)
    - 2412 ~ 2472 MHz (EU)
    - 2412 ~ 2482 MHz (Japan)
  - IEEE 802.11a
    - 5150 MHz – 5250 MHz (Japan)
    - 5150 MHz – 5350 MHz
    - 5470 MHz – 5725 MHz (Europe)
    - 5150 MHz – 5350 MHz
    - 5725 MHz – 5850 MHz (USA)
- Opt. Channel
  - IEEE 802.11b/g
    - 1 ~ 11 channels (North America)
    - 1 ~ 13 channels (General Europe)
    - 1 ~ 14 channels (Japan)
  - IEEE 802.11a
    - 4 Channels (Japan)
    - 19 Channels (Europe)
    - 13 Channels (USA)
- Emission Type
  - DSSS / OFDM
- Output Power @6Mbps/1mbps
  - 27dBm@ 11b/g
  - 21dbm@11bgn HT20
  - 20dbm@11bgn HT40
  - 18dbm@ 11a -
  - 13dbm@11a HT20-(14dbm)
  - 14dbm@11a HT40-(13dbm)
- IEEE 802.11b/g Sensitivity
  - Legacy Mode:
    - ◇ 1M -91
    - ◇ 11M -91
    - ◇ 6M -93
    - ◇ 54M -77
  - HT20 Mode
    - ◇ MCS 15 -74
    - ◇ MCS 8 -92
    - ◇ MCS 7 -75
    - ◇ MCS 0 -92
  - HT40 Mode
    - ◇ MCS 15 -70
    - ◇ MCS 8 -89
    - ◇ MCS 7 -73
    - ◇ MCS 0 -88
  - (Typically @PER < 8% packet size 1024 and @25°C ± 5°C)

- 802.11a Sensitivity
 

	5180MHz	5320MHz	5500MHz	5825MHz
6M	-93	-92	-93	-93
54M	-78	-78	-78	-78
HT 20				
MCS 15	-74	-75	-75	-74
MCS 8	-92	-93	-92	-88
MCS7	-74	-75	-75	-74
MCS0	-92	-93	-92	-88
HT 40	5190MHz	5310MHz	5590MHz	5795MHz
MCS 15	-71	-71	-70	-68
MCS 8	-90	-89	-89	-86
MCS 7	-73	-73	-72	-69
MCS 0	-90	-88	-87	-87

  - (typically @PER < 10% packet size 1024 and @25°C ± 5°C)- Frequency Stability
  - Within ± 25ppm
- Data Modulation Type
  - BPSK, QPSK, CCK and OFDM
- Power
  - Voltage: 5V+5%
- Security
  - WEP 64/128
  - 802.1X support
  - Wi-Fi Protected Access (WPA)
  - WPA-PSK
  - WPA II

### For further details:

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\* Included Free U-Mount  
 Use for Window, Glass, Notebook



U-Mount Install Instruction