



19.95 EUR  
incl. 19% VAT, plus [shipping](#)

- WLAN
- Bluetooth
- Half-Height Mini-PCIe

#### AW-NB037H Product Features:

- \* 2 Antenna to support 1(Transmit) x 1 (Receive) technology and Bluetooth
- Antenna 1: WiFi TX/RX
- Antenna 2: Bluetooth TX/RX
- \* High speed wireless connection up to 150 Mbps
- \* Low power consumption and high performance
- \* Enhanced wireless security
- \* Fully qualified Bluetooth v2.1 system
- \* Enhanced Data Rate(EDR) compliant for both 2Mbps and 3Mbps supported
- \* Fully speed operation with Piconet and Scatternet support

The Azurewave IEEE 802.11b/g/n WiFi with Bluetooth 2.1 Class II combo half size mini card module - AW-NB037H. The AW-NB037H module is a highly integrated wireless local area network solution to let users enjoy the digital content through the latest wireless technology without using the extra cables and cords. Wireless and Bluetooth network card that operates in the 2.4GHz spectrum. Designed for use with compatible small form factor mainboards that have a PCIe Mini Card slot.

Fully compliant with Bluetooth v2.1, which supports EDR of 2 Mb/sec and 3 Mb/sec for data and audio communications.

The AW-NB037H module adopts Atheros AR9285 with AR3011 solution.

The AW-NB037H module enables a high performance, cost effective, low power, compact solution that easily fits onto two sides of the PCI Express and USB Combo Half Mini Card.

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>Model Number</b>         | AW-NB037H                                                                                 |
| <b>Wireless Technology</b>  | 802.11n/b/g + Bluetooth                                                                   |
| <b>Wireless Chipset</b>     | Atheros 9285 + 3011                                                                       |
| <b>Electrical Interface</b> | PCI-Express (WiFi) + USB (BT)                                                             |
| <b>Physical Connector</b>   | PCI-Express (WiFi) + USB (BT)                                                             |
| <b>Data Rate</b>            | 802.11 g/n: OFDM<br>802.11 b: 11, 5.5 Mb/sec. (CCK)<br>2 Mb/sec. (QPSK), 1 Mb/sec. (BPSK) |
| <b>Power Consumption</b>    | See Data Sheet in Downloads Tab                                                           |
| <b>Security</b>             | WEP 64-bit and 128-bit encryption<br>WPS (WiFi protected access)<br>WPA2 with AES CCMP    |

**RF Power**

Wireless: 802.11b: Typical 17 dBm at all rates +/- 1.5 dBm

802.11g: Typical 15 dBm at 54 Mb/sec. / 17dBm at 6 Mb/sec. +/- 1.5 dBm

802.11n 2.4G HT20 : Typical 13 dBm at MCS15/17 dBm at MCS0 +/- 1.5 dBm

802.11n 2.4G HT40 : Typical 11 dBm at MCS15/16 dBm at MCS0 +/- 1.5 dBm

Bluetooth:  $-6 \leq \text{Output Power} \leq +4 \text{ dBm}$  (conductive)

802.11b: less than -78 dBm (11Mbps)

802.11g: less than -68 dBm (54Mbps)

**RF Sensitivity**

802.11n: less than -62 dBm at HT40 MCS7

less than -65 dBm at HT20 MCS7

BT: BER < 0.1% (Anritsu 8852B Tx -70Bm)

**Dimension**

29.9 x 26.7 x 4.3 mm

Hirose U.FL-R-SMT

**Antenna Options**

Wireless: TX/RX

Bluetooth: TX/RX

**Software Support**

Windows 7, XP, Linux

**Temperature Operating**

0 °C ~ 80 °C

**Temperature Storage**

-40 °C ~ 85 °C

**EMC Certification**

FCC, CE

**Packing List**

Module