



WMIO-164G

WMIO-164G Air-G MIMO Network APX

The Gemtek Air-G MIMO network APX WMIO-164G (the card) is a high performance wireless LAN adapter. It provides the wireless access to the networked resources. The card applies the MIMO (Multiple-Input Multiple-Output), a smart antenna technology to significantly not only enhance the throughput but also to extend the coverage range. The card is fully compliant with IEEE 802.11g & 11b standards and therefore offers the compatibility with existing 802.11g and 11b products. Its high transmission data rates and reliable performance are ideal for streaming multimedia applications .

The card also features WEP, AES hardware-based and TKIP security capabilities. This allows you to protect data over wireless communications, and still without sacrifice the performance when encrypting and decrypting the data.

- **Compliant with IEEE 802.11 g & b Standards on 2.4 GHz Band**
- **Airgo True MIMO Technology Provides up to 108 Mbps High-Speed Data Rate within a Single Channel**
- **Increase Speed and Coverage by Applying Smart Antenna Technology**
- **Support QoS, Draft 802.11e**
- **Capable of 64/128-Bit WEP, TKIP and AES Security Features**
- **Support Both Infrastructure and Ad-Hoc Networking Modes**



General Specifications

- **Support miniPCI Interface v2.2**

Product Name Air-G MIMO Network APX	Transmit Power 802.11b: 19 - 20 dBm (typical) 802.11g: 13 - 20 dBm (typical)
Model Number WMIO-164G	Receive Sensitivity 11Mbps: -86 dBm (Typical) 54Mbps: -73 dBm (Typical)
Spreading 802.11b: DSSS, CCK, QPSK, BPSK 802.11g: OFDM (Airgo True MIMO, 64QAM, 16QAM, QPSK, BPSK)	Temperature Range Operating: 0°C to 55°C (32°F to 131°F) Storage: -20°C to 65°C (-4°F to 149°F)
Frequency Range 802.11b/g: 2.4 ~ 2.4835GHz(subject to local regulations)	Humidity Operating: 10% to 90%, Non-Condensing Storage: Max. 95% Non-Condensing
Number of Channels USA, Canada and Taiwan - 11 Japan - 14 Most European Countries - 13 France - 4	Network Protocol TCP/IP, IPX, NDIS4, and NDIS5 ,NDIS 5.1
Roaming Seamless roaming among 802.11g compliant access points	Standards IEEE 802.11b standard IEEE 802.11g standard Support for draft IEEE 802.11e
Data Rate 802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps Airgo True MIMO: 108, 96, 72 Mbps within a single channel	Dimensions 420 x 258 x 130mm
Security 64/128 bits WEP, AES, and WPA (TKIP, 802.1x)	
Modulation 802.11g: OFDM, Airgo proprietary MIMO 802.11b: CCK (11, 5.5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)	