

**WMIA-165G****802.11g****Mini-PCI Module**

## Product Specification

<b>Chipset</b>	Atheros AR2413	<b>Number of Non-Overlapping Channels</b>	<b>802.11b</b> USA and Canada – 3 Most European countries – 3 Japan – 4 France – 1 <b>802.11g</b> USA and Canada – 3 Most European countries – 3 Japan – 3
<b>Interface Type</b>	mini-PCI Type IIIB	<b>Power Consumption</b>	<b>802.11g</b> Continue Tx : 560mA @3.3V Continue Rx : 290mA @3.3V <b>802.11b</b> Continue Tx : 510mA @3.3V Continue RX : 260mA @3.3V
<b>Frequency Band</b>	802.11b/g ISM band 2.400 ~ 2.484GHz	<b>Environmental</b>	<b>Temperature Range:</b> 0°~50°C (operating); -20°~85°C (storing) <b>Operating Humidity:</b> Operating Humidity 10% to 85% Non-Condensing Storage Humidity 5% to 90% Non-Condensing
<b>Standard</b>	IEEE 802.11b/g IEEE 802.3, 802.3u	<b>Supplied Driver</b>	Windows 98SE/ME/NT4.0/2000/XP
<b>Modulation</b>	802.11g: OFDM; 802.11b: CCK (11 Mbps, 5.5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)	<b>Operating Voltage</b>	3.3V ± 5%,
<b>Data Rate</b>	<b>802.11b</b> 11,5.5, 2, 1 Mbps <b>802.11g</b> 54, 48, 36,24,18,12,11, 9, 6, 5.5 , 2 , 1 Mbps	<b>Dimensions</b>	59.7x44.6x5 mm
<b>Antenna Interface</b>	UFL-CON	<b>Weight</b>	20g
<b>Transmit Power</b>	<b>802.11b</b> Please see the output power table for detail. <b>802.11g</b> Please see the output power table for detail.	<b>Operating Range</b>	Open Space: Up to 260 m; Indoor: 100 m The transmission speed varies in the surrounding environment
<b>Security</b>	<b>802.11b</b> 64/128-bit WEP Encryption , TKIP , AES <b>802.11g</b> 64/128-bit WEP Encryption, TKIP , AES	<b>Network Protocol</b>	TCP/IP, IPX, NDIS4, and NDIS5 ,NDIS 5.1
<b>Receive Sensitivity</b>	<b>802.11g</b> Nominal Temp Range: - 6Mbps 10-5 BER @ -90dBm, typical - 9Mbps 10-5 BER @ -89dBm, typical - 12Mbps 10-5 BER @ -88dBm, typical - 18Mbps 10-5 BER @ -87dBm, typical - 24Mbps 10-5 BER @ -83dBm, typical - 36Mbps 10-5 BER @ -80dBm, typical - 48Mbps 10-5 BER @ -74dBm, typical - 54Mbps 10-5 BER @ -70dBm, typical <b>802.11b</b> Typ. -87 dBm @ 11 Mbps, typical Typ. -91 dBm @ 5.5Mbps , typical Typ. -92 dBm @ 2Mbps , typical Typ. -93 dBm @ 1Mbps , typical	<b>Management Utility</b>	Monitor Internet Access Status via UI
		<b>System Requirements</b>	Laptop PC containing → MINIPCI local bus slot → 64MB memory or greater → 300MHz processor or greater  Microsoft Windows 98 Second Edition/Millennium Edition/2000/NT 4.0 with Service Pack 6, Windows XP

# 802.11 WLAN Module Series

C O N N E C T I O N   M A D E   E A S Y

Output power table [dBm] in 802.11g, **FCC**

CH	2412 MHz	2447MHz	2472 MHz	remark
6~24 Mbps	16.5	19	16.5	+/-1.5dB
36 Mbps	16.5	18	16.5	+/-1.5dB
48 Mbps	16	16	16	+/-1.5dB
54 Mbps	15	15	15	+/-1.5dB

Output power table [dBm] in 802.11g, **ETSI**

CH	2412 MHz	2447MHz	2472 MHz	remark
6~24 Mbps	14.5	14.5	14.5	+/-1.5dB
36 Mbps	14.5	14.5	14.5	+/-1.5dB
48 Mbps	14.5	14.5	14.5	+/-1.5dB
54Mbps	14.5	14.5	14.5	+/-1.5dB

Output power table [dBm] in 802.11b,**FCC**

CH	2412 MHz	2447MHz	2472 MHz	remark
1 Mbps	19	19	19	+/-1.5dB
2Mbps	19	19	19	+/-1.5dB
5.5Mbps	19	19	19	+/-1.5dB
11Mbps	19	19	19	+/-1.5dB

Output power table [dBm] in 802.11b,**ETSI**

CH	2412 MHz	2447MHz	2472 MHz	remark
1 Mbps	16	16	16	+/-1.5dB
2Mbps	16	16	16	+/-1.5dB
5.5Mbps	16	16	16	+/-1.5dB
11Mbps	16	16	16	+/-1.5dB

[www.sparklan.com](http://www.sparklan.com) / [service@sparklan.com](mailto:service@sparklan.com) / +886-2-26591880