

WMIA-165G

802.11g

Mini-PCI Module



Product Specification

Chipset	Atheros AR2413
Interface Type	mini-PCI Type IIIB
Frequency Band	802.11b/g ISM band 2.400 ~ 2.484GHz
Standard	IEEE 802.11b/g IEEE 802.3, 802.3u
Modulation	802.11g: OFDM; 802.11b: CCK (11 Mbps, 5.5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)
Data Rate	802.11b 11,5.5, 2, 1 Mbps 802.11g 54, 48, 36,24,18,12,11, 9, 6, 5.5 , 2 , 1 Mbps
Antenna Interface	UFL-CON
Transmit Power	802.11b Please see the output power table for detail. 802.11g Please see the output power table for detail.
Security	802.11b 64/128-bit WEP Encryption , TKIP , AES 802.11g 64/128-bit WEP Encryption, TKIP , AES
Receive Sensitivity	802.11g Nominal Temp Range: - 6Mbp 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 802.11b Typ. -87 dBm @ 11 Mbps, typical Typ. -91 dBm @ 5.5Mbps , typical Typ. -92 dBm @ 2Mbps , typical Typ. -93 dBm @ 1Mbps , typical

Number of Non-Overlapping Channels	802.11b USA and Canada – 3 Most European countries – 3 Japan – 4 France – 1 802.11g USA and Canada – 3 Most European countries – 3 Japan – 3
Power Consumption	802.11g Continue Tx : 560mA @3.3V Continue Rx : 290mA @3.3V 802.11b Continue Tx : 510mA @3.3V Continue RX: 260mA @3.3V
Environmental	Temperature Range: 0°~50°C (operating); -20°~85°C (storing) Operating Humidity: Operating Humidity 10% to 85% Non-Condensing Storage Humidity 5% to 90% Non-Condensing
Supplied Driver	Windows 98SE/ME/NT4.0/2000/XP
Operating Voltage	3.3V ± 5%,
Dimensions	59.7x44.6x5 mm
Weight	20g
Operating Range	Open Space: Up to 260 m; Indoor: 100 m The transmission speed varies in the surrounding environment
Network Protocol	TCP/IP, IPX, NDIS4, and NDIS5 ,NDIS 5.1
Management Utility	Monitor Internet Access Status via UI
System Requirements	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

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