



# WLM54AG 6B-23 MINIPCI

Atheros AR5414 Chipset

23dBm @ 2.4/5GHz (200mW)

Complx WLM54AG 6B-23 MiniPCI network adapter is compact, lightweight, has high-performance and low power consumption. Built on Atheros AR5414 chipset, it can be used for all IEEE802.11 a/b/g compatible WLAN and support up to 108Mbps high-speed data rate. It is ideally suited for integration in a wide range of OEM devices.

WLM54AG 6B-23 MiniPCI network adapter offers an output power of up to 23dBm on a/b/g band, and also supports a variety of security features such as WEP, AES, receive and transmit filtering, error recovery, quality of service (QoS) as well as IEEE802.1x standard, thus providing security to the wireless network and increase WLAN performance.

- ◆ **High Performance with Low Power Consumption**
- ◆ **Output Power of up to 23dBm at a/b/g band**
- ◆ **Affordable and ideal for a variety of applications**

## Features

- 2.4/ 5GHz IEEE 802.11 a/b/g standard
- Up to 108Mbps high-speed data rate
- Output Power of up to 23dBm @ a/b/g Band
- Dynamic Frequency Selection (DFS)
- Wi-Fi Protected Access Client Support (WPA)
- Transmission Power Control (TPC)
- Multi-country Roaming Support (IEEE802.11d)
- Flexibility: flexible design for embedded system or OEM project

## Applications

- Infrastructure Networking
- Embedded system or OEM device

## WLM54AG 6B-23 MINIPCI TECHNICAL SPECIFICATIONS

<b>MODEL</b>	WLM54AG 6B-23 (Wireless-superAG)	
<b>CHIPSET</b>	AR5414	
<b>SPEED (max)</b>	108Mbps	
<b>OUTPUT POWER</b>		
802.11a	6-24Mbps	23dBm
	36Mbps	22dBm
	48Mbps	19dBm
	54Mbps	17dBm
802.11b	1-11Mbps	23dBm
802.11g	6-24Mbps	23dBm
	36Mbps	22dBm
	48Mbps	19dBm
	54Mbps	17dBm
<b>POWER CONSUMPTION</b>		
	2.5W	
<b>STANDARDS</b>		
IEEE 802.11a:	54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps	
IEEE 802.11b:	11Mbps, 5.5Mbps, 2Mbps, 1Mbps	
IEEE 802.11g:	54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps, automatically fallback to 5.5Mbps, 2Mbps, 1Mbps	
Super-AG	108Mbps, 96Mbps, 72Mbps, 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps	
<b>FREQUENCY RANGE</b>		
IEEE 802.11b/g	2.412GHz ~ 2.462GHz (US & Canada)	
	2.412GHz ~ 2.472GHz (Europe)	
	2.412GHz ~ 2.484GHz (Japan)	
IEEE 802.11a	5.15~5.35GHz, 5.725~5.850GHz (US & Canada)	
	5.15~5.35GHz, 5.47~5.725GHz (Europe)	
	4.90~5.00GHz, 5.03~5.091GHz, 5.15~5.25GHz (Japan)	
<b>NETWORK INTERFACE</b>		
PCI interface v2.3 (Type III-B Mini PCI form factor)		
<b>ANTENNA CONNECTOR</b>		
Two antenna connectors (U.FL)		
<b>MODULATION TECHNIQUES</b>		
OFDM and DSSS		
OFDM: BPSK, QPSK, 16 QAM, 64QAM		
DSSS: DBPSK, DQPSK, CCK		
<b>RECEIVER SENSITIVITY</b>		
802.11a	-90 dBm @ 6Mbps,	-70 dBm @ 54Mbps
802.11b	-92 dBm @ 1Mbps,	-87 dBm @ 11Mbps
802.11g	-90 dBm @ 6Mbps,	-70 dBm @ 54Mbps
<b>OPERATING CHANNELS</b>		
US and Canada	11 Channels	
Europe	13 Channels	
Japan	14 Channels	
<b>SECURITY</b>		
64/128 Bit WEP, WPA/WPA2 , IEEE802.1X Authentication		
<b>CERTIFICATE</b>		
FCC, CE		
<b>RoHS COMPLIANCE</b>		
Yes		
<b>ENVIRONMENTAL SPECIFICATIONS</b>		
Temperature	Operating -20°C to 70°C	
	Storage -65°C to 100°C	
Humidity	Operating 5% to 95% (non-condensing)	
<b>DIMENSIONS &amp; WEIGHT</b>		
Dimensions	6.0cm x 4.5cm (L x B)	
Weight	20 grams	

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