



## WLM54G 6B-30 MINIPCI

Atheros AR5414 Chipset  
30dBm @ 2.4GHz (1000mw)

## WLM54G 6B-26 MINIPCI

Atheros AR5414 Chipset  
26dBm @ 2.4GHz (400mw)

- ◆ **High Performance with Low Power Consumption**
- ◆ **Up to 30dBm output power at b/g band**
- ◆ **Higher speed at extended distance**
- ◆ **Supports Atheros proprietary “Super Mode”, enabling 108 Mbps data rate.**
- ◆ **Affordable and ideal for a variety of applications**

Compex introduces the WLM54G 6B-30 and wireless 802.11b/g miniPCI card for high-power and long-distance wireless applications (up to 1000mw of output power), extending the link distance of embedded devices beyond conventional limitations. Combined with excellent receiver sensitivity, Compex WLM54G 6B-30 is the perfect choice for long-range applications, or for applications where signal levels are reduced due to minor obstructions such as trees or buildings. The WLM54G 6B-30 is capable of operating in Super G mode, delivering better performance at higher throughput for your network connectivity.

Built on Atheros chipset, Compex WLM54G 6B-30 miniPCI card can be used for all IEEE 802.11b/g compatible WLAN applications. It is ideal to be integrated in a wide range of OEM devices that demands performance, stability and reliability.

### Features

- 2.4GHz IEEE 802.11 b/g standard
- Up to 108Mbps high-speed data rate
- Output Power of up to 30dBm @ b/g Band
- Dynamic Frequency Selection (DFS)
- Encryption and Authentication support
- Transmission Power Control (TPC)
- Multi-country Roaming Support (IEEE802.11d)
- Suitable for Embedded System or OEM project
- **\*\* Note: WLM54G-6B-26 has same features as WLM54G 6B-30  
Only power output is 26dBm or 400mW**

### Applications

- Infrastructure Networking
- Embedded system or OEM device

# WLM54G 6B-30 MINIPCI TECHNICAL SPECIFICATIONS

<b>MODEL</b>	WLM54G 6B-30 (Wireless-superG)	
<b>CHIPSET</b>	AR5414	
<b>SPEED (max)</b>	108Mbps	
<b>OUTPUT POWER</b>		
802.11g	6-24Mbps	30dBm
	36Mbps	28dBm
	48Mbps	27dBm
	54Mbps	25dBm
802.11b	1-11Mbps	30dBm
<b>POWER CONSUMPTION</b>		
5W		
<b>STANDARDS</b>		
IEEE 802.11g:	54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps, automatically fallback to 5.5Mbps, 2Mbps, 1Mbps	
IEEE 802.11b:	11Mbps, 5.5Mbps, 2Mbps, 1Mbps	
Super-G	108Mbps, 96Mbps, 72Mbps, 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 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)	
<b>HOST INTERFACE</b>		
PCI Interface v2.3 (Type III-B Mini PCI form factor)		
<b>ANTENNA CONNECTOR</b>		
1 x MCX (Main), 1 x U.FL (AUX)		
<b>MODULATION TECHNIQUES</b>		
OFDM and DSSS OFDM: BPSK, QPSK, 16QAM, 64QAM DSSS: DBPSK, DQPSK, CCK		
<b>RECEIVER SENSITIVITY</b>		
802.11b -92 dBm @ 1Mbps, -87 dBm @ 11Mbps 802.11g -90 dBm @ 6Mbps, -70 dBm @ 54Mbps		
<b>FREQUENCY CHANNELS</b>		
US/Canada:	11 channels	
Europe:	13 channels	
Japan:	14 channels	
<b>SECURITY</b>		
64/128 Bit WEP, TKIP, AES, IEEE 802.1X Authentication		
<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	59.4 mm x 46 mm (L X B)	

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