



WLM54G (1a)/ WLM54G (1b)/ WLM54AG

WIRELESS-G/AG NETWORK MINI PCI ADAPTER



Compex WLM series Wireless-G/AG MiniPCI network adapters are compact, lightweight, has high-performance and low power consumption. Built on Atheros chipset, it can be used for all IEEE802.11b/g or a/g compatible WLAN and is ideally suited for integration in a wide range of OEM devices.

WLM Mini PCI series 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.

Features

- 2.4Ghz IEEE 802.11 b/g standard
- Up to 108Mbps high speed data rate
- 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

- Ad-hoc Networking
- Infrastructure Networking
- Embedded system or OEM device



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Description	Specifications		
	WLM54G (1a)	WLM54G (1b)	WLM54AG
Standards	IEEE 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12 Mbps, 9Mbps, 6Mbps, automatically fallback to 5.5Mbps, 2 Mbps, 1 Mbps IEEE 802.11b: 11Mbps, 5.5Mbps, 2Mbps, 1Mbps		
Frequency Range	(802.11g)	2.412GHz ~ 2.462GHz (US&Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)	
	(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)	
Modulation Techniques	OFDM and DSSS OFDM: BPSK, QPSK, 16 QAM, 64QAM DSSS: DBPSK, DQPSK, CCK		
Interface standards	PCI interface v2.3 (Type III-B Mini PCI form factor)		
Receiver Sensitivity	802.11g: 1Mbps (CCK) @ -95dBm, 11Mbps (CCK) @ -90dBm OFDM 6Mbps @ -92dBm, OFDM 54Mbps @ -73dBm 6Mbps to 24Mbps @ -88dBm, Data rate >24Mbps @ -68dBm 802.11b: 1Mbps (CCK) @ -95dBm, 11Mbps (CCK) @ -90dBm 2Mbps to 5.5Mbps @ -90dBm Data Rate above 5.5Mbps -85dBm		
Operating Channels	(802.11g)	IEEE802.11g: 11 Channel (US&Canada) , 13 Channel (Europe) , 14 Channel (Japan)	
	(802.11a)	13 Channel (US & Canada) 19 Channel (Europe) 10 Channel (Japan)	
Security	64/128 Bit WEP, IEEE802.1X Authentication, WPA		
Power Requirements	Operating voltage: 3.3V DC Maximum consumption: 600mA		
Output Power	802.11g @19dBm(max), 802.11b @20dBm(max) 802.11a @18dBm(max)		
Environment Requirements	Temperature: 0°C- 50°C (operating) -40°C-70°C (Storage) Humidity: 5% --95 % (Non-condensing)		
Dimensions	6.0cm x 4.5cm (L x B)		
Weight	20 grams		