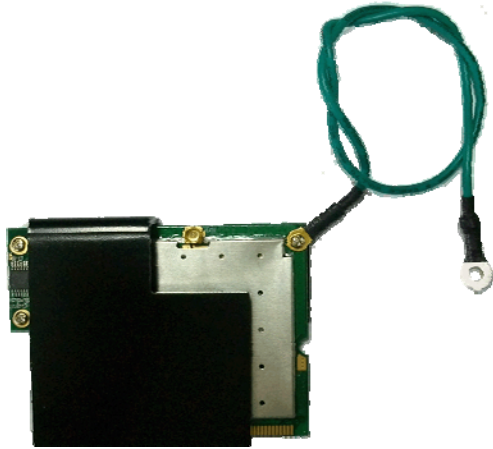


WLM MINIPCI SERIES

WLM54G(Super-G)-30dBm ESD



Features

- 2.4GHz IEEE 802.11 b/g standard
- Output Power of up to 30dBm @ b/g Band Built in ESD Protection
- RF ESD/EMP Immunity Threshold: 15KeV^①
- Supports Atheros Proprietary "Super Mode" allowing for 108Mbps Data Speeds
- Transmission Power Control (TPC)
- Extended Distances and High Speeds Due to Better Output Signal Power
- High Performance with Low Power Consumption
- Multi-Country Roaming Support (IEEE802.11d)
- Single MMCX Antenna Connector
- Suitable for Embedded System or OEM Project
- Affordable and Ideal for a Variety of Applications

Technical Specifications												
Chipset	WLM54G(G)-30 ESD						WLM54G(Super-G)-30 ESD					
	Atheros 2413						Atheros 2414					
Host Interface	PCI Interface v2.3 (Type III-B Mini PCI form factor)											
Operating Voltage	3.3 VDC											
Power Consumption	7.5W											
Antenna Connector	MMCX (main)											
Data Rate	IEEE 802.11b:	11Mbps	5.5 Mbps	2 Mbps	1 Mbps							
	IEEE 802.11g:	54Mbps	48Mbps	36Mbps	24Mbps	18Mbps	12Mbps	9Mbps	6Mbps			
	Super-G:	108Mbps	96Mbps	72Mbps	54Mbps	48Mbps	36Mbps	24Mbps	18Mbps	12Mbps	6Mbps	
Frequency Range	IEEE 802.11b/g:	2.412GHz ~ 2.462GHz (US & Canada)										
		2.412GHz ~ 2.472GHz (Europe)										
		2.412GHz ~ 2.484GHz (Japan)										
Modulation Techniques	OFMD: BPSK, QPSK, 16 QAM, 64QAM DSSS: DBPSK, DQPSK, CCK											
Certificate	FCC											
ROHS Compliance	Yes											
Environment Specifications	Operating: -20°C to 70°C Storage: -40 °C to 90 °C											
Humidity	5% to 95% (non-condensing)											
Dimension	59.6 x 47 x 14 mm											

WLM54G-30 ESD MINIPCI CARD RADIO OPERATING FREQUENCY 2.412~2.484GHz							
TX SPECIFICATIONS				RX SPECIFICATIONS			
	DataRate	TX Power	Tolerance		DataRate	Sensitivity	Tolerance
802.11b	1Mbps	30dBm	+1.0/-1.5 dB	802.11b	1Mbps	-96dBm	±2dB
	2Mbps	30dBm	+1.0/-1.5 dB		11Mbps	-92dBm	±2dB
	5.5Mbps	30dBm	+1.0/-1.5 dB				
	11Mbps	30dBm	+1.0/-1.5 dB				
802.11g	6Mbps	30dBm	+1.0/-1.5 dB	802.11g	6Mbps	-96dBm	±2dB
	9Mbps	30dBm	+1.0/-1.5 dB				
	12Mbps	30dBm	+1.0/-1.5 dB				
	18Mbps	30dBm	+1.0/-1.5 dB				
	24Mbps	30dBm	+1.0/-1.5 dB		54Mbps	<-72dBm	±2dB
	36Mbps	28dBm	+1.0/-1.5 dB				
	48Mbps	27dBm	+1.0/-1.5 dB				
	54Mbps	25dBm	+1.0/-1.5 dB				

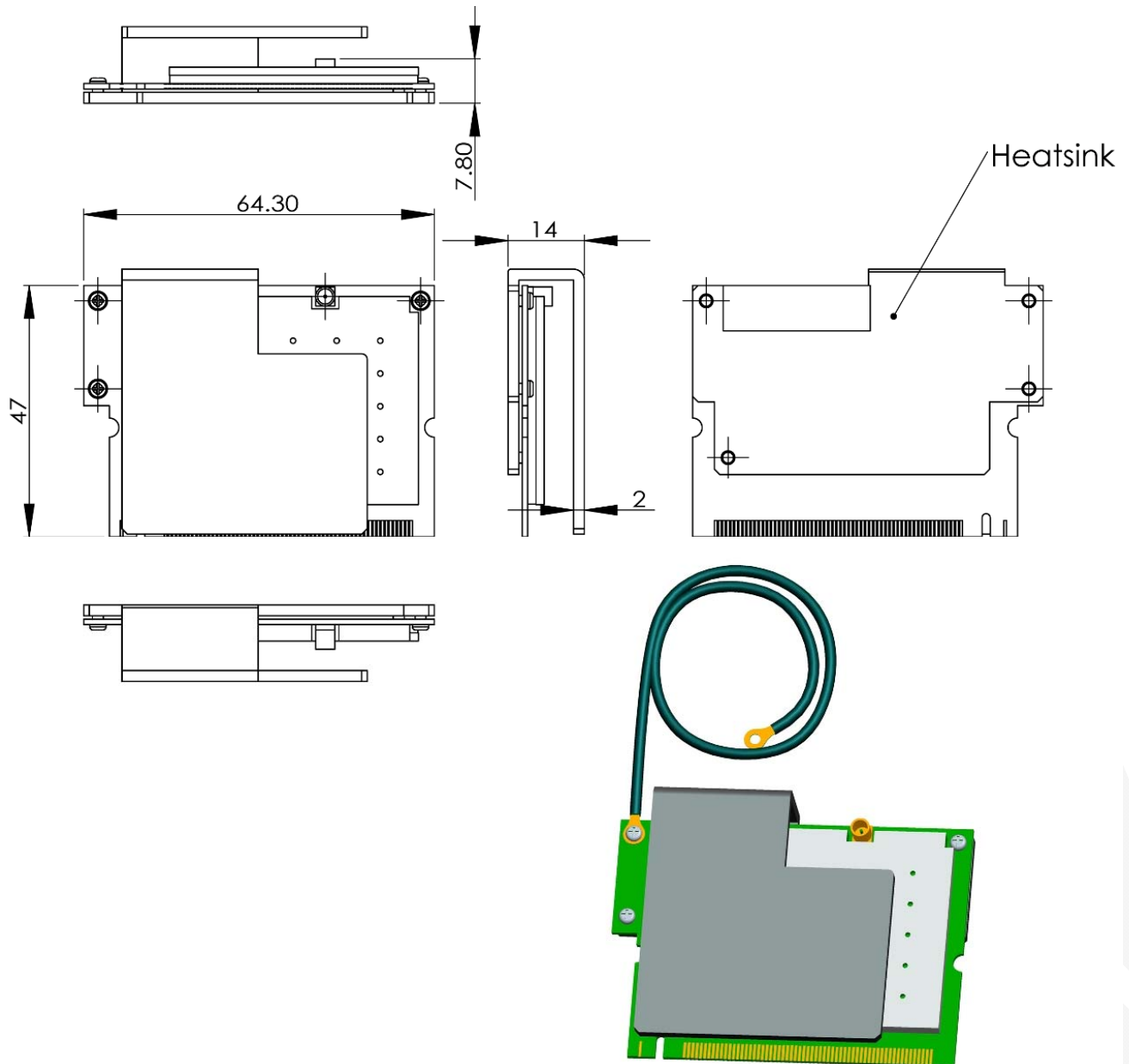
ESD CABLE SPECIFICATION	
Cable Dimensions	26cm length
Terminal Material	Copper
Attachment Procedure	End of ESD Cable tied to Earth Ground

ORDERING CONFIGURATIONS^②

CODES	SPEED	Carton Dimension
WLM54G-6BA1300P30SESD	Up to 108 Mbps	For 50pcs (pcs/ctn), 0.40m * 0.22m * 0.085m / 0.006 = 1.5KG For 250pc (pcs/ctn), 0.45m * 0.45m * 0.24m / 0.006 = 8.1KG
WLM54G-6BA1100P30SESD	Up to 108 Mbps	
WLM54G-6AA1300P30SESD(MOQ NEEDED)	Up to 54 Mbps	
WLM54G-6AA1100P30SESD(MOQ NEEDED)	Up to 54 Mbps	

- ① Must use included grounding cable
- ② Configurations are subjected to change without notice

DIMENSIONS DRAWING



WLM FAMILY SERIES OF MINIPCI

b / g (2.4GHz)								a / b / g (2.4/5GHz)				
MODEL	WLM 54G-20dBm	WLM 54G-23dBm	WLM 54G-26dBm	WLM 54G-28dBm	WLM54G-30dBm	WLM200N2	WLM200N2-26dBm	WLM 54AG - 20dBm	WLM 54AG - 23dBm	WLM 54A - 26dBm	WLM200NX	WLM200N5-26
CHIPSET	AR 2413/2414 (AR5005G/GS)	AR 2413/2414 (AR5005G/GS)	AR 2413/2414 (AR5005G/GS)	AR 2413/2414 (AR5005G/GS)	AR 2413/2414 (AR5005G/GS)	AR9223	AR9223	AR 5413/5414 (AR5006X/XS)	AR 5413/5414 (AR5006X/XS)	AR5414 (AR5006XS)	AR9220	AR9220
SPEED	UP TO 54/108Mbps	UP TO 54/108Mbps	UP TO 54/108Mbps	UP TO 54/108Mbps	UP TO 54/108Mbps	UP TO 300Mbps physical data rates	UP TO 300Mbps physical data rates	UP TO 54/108Mbps	UP TO 54/108Mbps	UP TO 108Mbps	UP TO 300Mbps physical data rates	UP TO 300Mbps physical data rates
OUTPUT POWER (Average)												
802.11a								20dBm@6-24Mbps	23dBm@6-24Mbps	26dBm@6-24Mbps	20dBm@6-24Mbps	26dBm@6-24Mbps
								17dBm@36Mbps	21dBm@36Mbps	24dBm@36Mbps	17dBm@36Mbps	26dBm@36Mbps
								16dBm@48Mbps	19dBm@48Mbps	22dBm@48Mbps	16dBm@48Mbps	25dBm@48Mbps
								13dBm@54Mbps	17dBm@54Mbps	20dBm@54Mbps	13dBm@54Mbps	19dBm@54Mbps
802.11b	20dBm@1-11Mbps	23dBm@1-11Mbps	26dBm@1-11Mbps	28dBm@1-11Mbps	30dBm@1-11Mbps	20dBm@1-11Mbps	26dBm@1-11Mbps	20dBm@1-11Mbps	23dBm@1-11Mbps		20dBm@1-11Mbps	
802.11g	20dBm@6-24Mbps	23dBm@6-24Mbps	26dBm@6-24Mbps	28dBm@6-24Mbps	30dBm@6-24Mbps	20dBm@6-24Mbps	26dBm@6-24Mbps	20dBm@6-24Mbps	23dBm@6-24Mbps		20dBm@6-24Mbps	
	19dBm@36Mbps	22dBm@36Mbps	25dBm@36Mbps	26dBm@36Mbps	28dBm@36Mbps	19.5dBm@36Mbps	26dBm@36Mbps	18dBm@36Mbps	21dBm@36Mbps		18dBm@36Mbps	
	17dBm@48Mbps	19dBm@48Mbps	24dBm@48Mbps	25dBm@48Mbps	27dBm@48Mbps	18.5dBm@48Mbps	22dBm@48Mbps	17dBm@48Mbps	19dBm@48Mbps		17dBm@48Mbps	
	16dBm@54Mbps	17dBm@54Mbps	22dBm@54Mbps	23dBm@54Mbps	25dBm@54Mbps	17dBm@54Mbps	21dBm@54Mbps	15dBm@54Mbps	17dBm@54Mbps		15dBm@54Mbps	
Interface	PCI Interface v2.3 (Type III-B/A Mini PCI Form Factor)											
Receiver Sensitivity	802.11g -93±2dBm @ 6Mbps < -72±2dBm @ 54Mbps			802.11b -93±2dBm @ 6Mbps < -90±2dBm @ 11Mbps			802.11a -93±2dBm @ 6Mbps < -72±2dBm @ 54Mbps					
Operating Channels	IEEE 802.11g: 11 Channel (US & Canada) 13 Channel (Europe) 14 Channel (Japan)						IEEE 802.11a: 13 Channel (US & Canada) 19 Channel (Europe) 10 Channel (Japan)					
Power	3.3VDC											
Operating Temperature	-20°C to 70°C											

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