



# XTREMERange2

Carrier-Class 2.4GHz 802.11b/g Radio Module

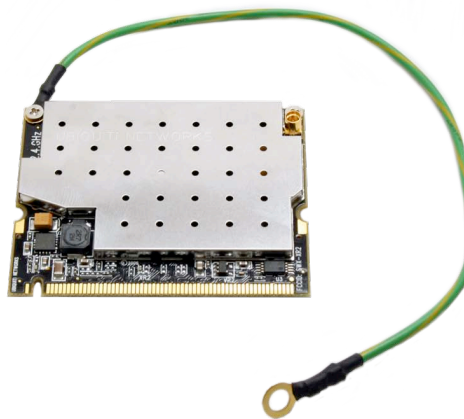


The XtremeRange series of radio modules by Ubiquiti leverages our strong knowledge and experience gained from customer interactions, field performance evaluations, and lab research; and improves upon the original and highly successful SuperRange series of high-performance 802.11 radio cards. The XtremeRange2 represents the first true carrier-class 802.11b/g-based 2.4GHz radio module specifically designed for mesh, bridging, and infrastructure applications requiring the highest levels of performance and reliability without compromise.

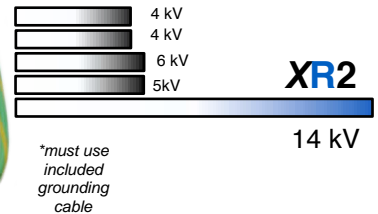
## Designed to Link Farther and Faster

Built to Last Outdoors in Harshest Environments

FEATURES
600mW Output Power
ESD/EMP Protection
Industry-Best Sensitivity
Extended Temperature
Enhanced Filtering
5/10/20/40 MHz Channels
MMCX Ant. Connector



### RF ESD/EMP Immunity Threshold vs. Standard Cards



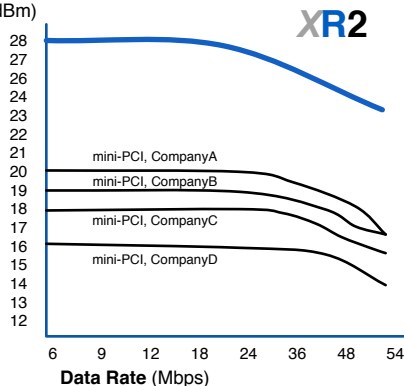
Built for Industrial / Rugged Applications

RF ESD/EMP Earth Ground Cable

Built-in HeatSink for Temperature Performance

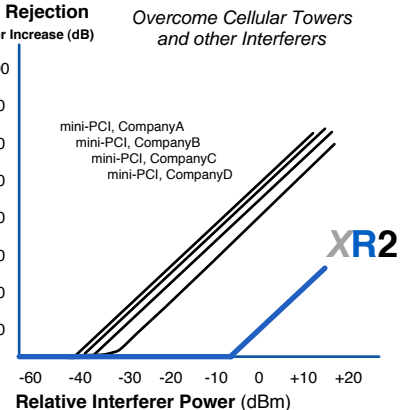


Power, 2.4GHz (dBm)



Mikrotik is a trademark of Mikrotiks SIA, Latvia

1.9GHz Rejection Noise Floor Increase (dB)



Overcome Cellular Towers and other Interferers

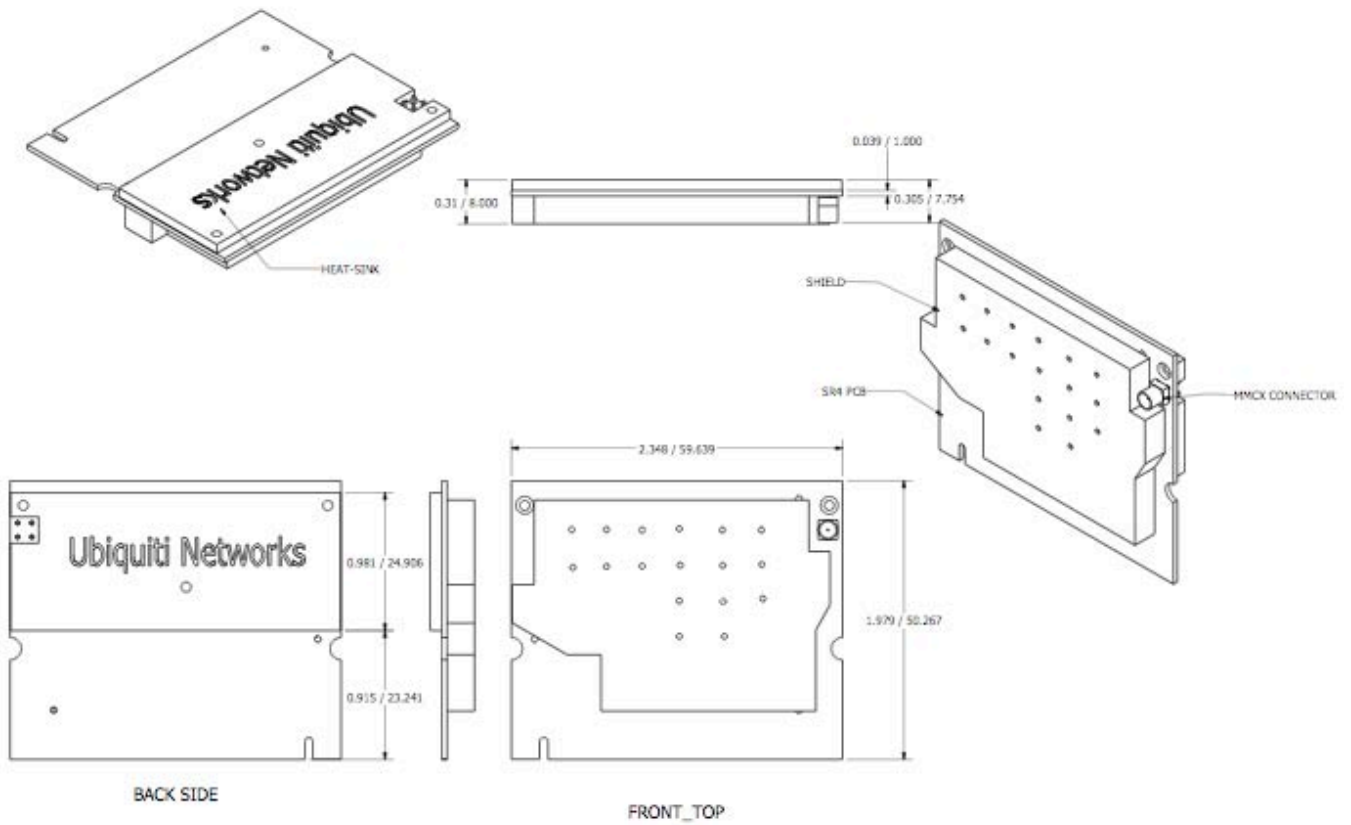
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## TECHNICAL SPECIFICATIONS

CARD INFORMATION							
Chipset	Atheros, 6th Generation, AR2316						
Radio Operation	IEEE 802.11b/g, 2.4GHz						
Interface	32-bit mini-PCI Type IIIA						
Operation Voltage	3.3VDC						
Antenna Ports	Single MMCX						
Temperature Range	-40C to +80C (extended temp version up to +95C)						
Security	WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152bit WEP						
Data Rates	6Mbps, 9Mbps, 12Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps						
TX Channel Width Support	5MHz / 10MHz / 20MHz / 40MHz						
RoHS Compliance	YES						
REGULATORY INFORMATION							
Wireless Modular Approvals	FCC Part 15.247, IC RS210						
RADIO OPERATING FREQUENCY 2412-2462 MHz (2312-2732 MHz*)							
TX SPECIFICATIONS			RX SPECIFICATIONS				
802.11b	DataRate	TX Power	Tolerance	802.11b	DataRate	Sensitivity	Tolerance
	1Mbps	26 dBm	+/-1dB		1Mbps	-97 dBm	+/-1dB
	2Mbps	26 dBm	+/-1dB		2Mbps	-96 dBm	+/-1dB
	5.5Mbps	26 dBm	+/-1dB		5.5Mbps	-95 dBm	+/-1dB
802.11g OFDM	11Mbps	26 dBm	+/-1dB	802.11g OFDM	11Mbps	-92 dBm	+/-1dB
	6Mbps	26 dBm	+/-1dB		6Mbps	-94 dBm	+/-1dB
	9Mbps	26 dBm	+/-1dB		9Mbps	-93 dBm	+/-1dB
	12Mbps	26 dBm	+/-1dB		12Mbps	-91 dBm	+/-1dB
	18Mbps	26 dBm	+/-1dB		18Mbps	-90 dBm	+/-1dB
	24Mbps	26 dBm	+/-1dB		24Mbps	-86 dBm	+/-1dB
	36Mbps	24 dBm	+/-1dB		36Mbps	-83 dBm	+/-1dB
48Mbps	23 dBm	+/-1dB	48Mbps	-77 dBm	+/-1dB		
54Mbps	22 dBm	+/-1dB	54Mbps	-74 dBm	+/-1dB		
ADJUSTABLE CHANNEL SIZE SUPPORT (Increase Channel Capacity or Increase Throughput)							
5MHz	10MHz	20MHz	40MHz (Turbo)				
CURRENT CONSUMPTION INFORMATION							
TX CURRENT CONSUMPTION			RX CURRENT CONSUMPTION				
802.11b	DataRate	Current	Tolerance	802.11b	DataRate	Sensitivity	Tolerance
	1Mbps	1.30 A	+/-100mA		1Mbps	300 mA	+/-100mA
	2Mbps	1.30 A	+/-100mA		2Mbps	300 mA	+/-100mA
	5.5Mbps	1.30 A	+/-100mA		5.5Mbps	300 mA	+/-100mA
802.11g OFDM	11Mbps	1.30 A	+/-100mA	802.11g OFDM	11Mbps	300 mA	+/-100mA
	6Mbps	1.30 A	+/-100mA		6Mbps	300 mA	+/-100mA
	9Mbps	1.30 A	+/-100mA		9Mbps	300 mA	+/-100mA
	12Mbps	1.30 A	+/-100mA		12Mbps	300 mA	+/-100mA
	18Mbps	1.30 A	+/-100mA		18Mbps	300 mA	+/-100mA
	24Mbps	1.30 A	+/-100mA		24Mbps	300 mA	+/-100mA
	36Mbps	1.10 A	+/-100mA		36Mbps	300 mA	+/-100mA
48Mbps	1.00 A	+/-100mA	48Mbps	300 mA	+/-100mA		
54Mbps	0.90 A	+/-100mA	54Mbps	300 mA	+/-100mA		
ESD/EMP CABLE SPECIFICATIONS							
Cable Dimensions	8 in length, 0.55mm diameter (26AWG)						
Terminal Material / Dimensions	Copper / 4.3mm diameter						
Attachment Procedure	Ground end to enclosure point tied to Earth Ground						
RANGE PERFORMANCE							
Indoor (Antenna Dependent):	Up to 200meters						
Outdoor (Antenna Dependent):	Over 50km						
DRIVER INFORMATION							
Operating System Support	Linux MADWIFI, WindowsXP, Windows2000						
Advanced Mobility / QuickHandoff	WindowsXP/2000 Utility with Enhanced Mobility Driver from Ubiquiti						
Cisco Support	CCX 4.0 Certified Driver/Utility also available from Ubiquiti						
For help with MADWIFI or other Special Driver Support, Please e-mail support@ubnt.com							

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## MECHANICAL DIMENSIONS



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