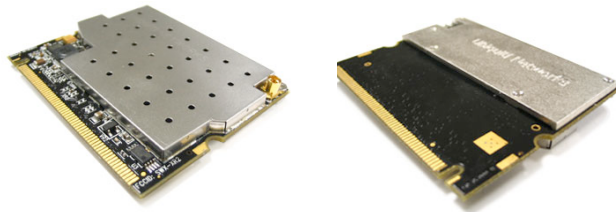
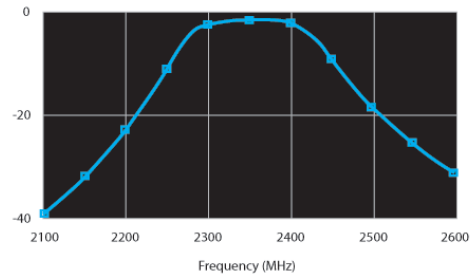


XTREMERange2-2.3

World's First 2.3GHz Atheros Radio Module



Receiver Frequency Response



CARD INFORMATION	
Chipset	Atheros, 6th Generation, AR5414
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	-45C to +90C (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

RADIO OPERATING FREQUENCY 2300-2500MHz (MUST HAVE DRIVER CAPABLE OF LOWER FREQUENCY OPERATION!)							
TX SPECIFICATIONS				RX SPECIFICATIONS			
	DataRate	TX Power	Tolerance		DataRate	Sensitivity	Tolerance
802.11b	1Mbps	28 dBm	+/-1dB	802.11b	1Mbps	-97 dBm	+/-1dB
	2Mbps	28 dBm	+/-1dB		2Mbps	-96 dBm	+/-1dB
	5.5Mbps	28 dBm	+/-1dB		5.5Mbps	-95 dBm	+/-1dB
	11Mbps	28 dBm	+/-1dB		11Mbps	-92 dBm	+/-1dB
802.11g OFDM	6Mbps	28 dBm	+/-1dB	802.11g OFDM	6Mbps	-94 dBm	+/-1dB
	9Mbps	28 dBm	+/-1dB		9Mbps	-93 dBm	+/-1dB
	12Mbps	28 dBm	+/-1dB		12Mbps	-91 dBm	+/-1dB
	18Mbps	28 dBm	+/-1dB		18Mbps	-90 dBm	+/-1dB
	24Mbps	28 dBm	+/-1dB		24Mbps	-86 dBm	+/-1dB
	36Mbps	26 dBm	+/-1dB		36Mbps	-83 dBm	+/-1dB
	48Mbps	25 dBm	+/-1dB		48Mbps	-77 dBm	+/-1dB
	54Mbps	24 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			
	DataRate	Current	Tolerance		DataRate	Sensitivity	Tolerance
802.11b	1Mbps	1.30 A	+/-100mA	802.11b	1Mbps	300 mA	+/-100mA
	2Mbps	1.30 A	+/-100mA		2Mbps	300 mA	+/-100mA
	5.5Mbps	1.30 A	+/-100mA		5.5Mbps	300 mA	+/-100mA
	11Mbps	1.30 A	+/-100mA		11Mbps	300 mA	+/-100mA
802.11g OFDM	6Mbps	1.30 A	+/-100mA	802.11g OFDM	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 Supported Driver/Utility also available from Ubiquiti

For help with MADWIFI or other Special Driver Support, Please e-mail support@ubnt.com