

# XTREMERange3

## TECHNICAL SPECIFICATIONS

Frequency Freedom™



Think Outside the Band™



Tested with and Optimized for



### CARD INFORMATION

Chipset	Atheros, 6th Generation, AR5414 with SuperA/Turbo Support
Radio Operation	802.11 Based MAC/PHY
Interface	32-bit mini-PCI Type IIIA
Operation Voltage	3.3VDC
Antenna Ports	Single MMCX
Temperature Range	-45 to +85C (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

### FREQUENCY RANGE (VERSION DEPENDENT)

XR3-2.8	XR3-3.5	XR3-3.7
<b>2.70GHz-2.90GHz</b>	<b>3.400-3.7GHz*</b>	<b>3.65-3.70GHz (FCC Part90Y)</b>

### RADIO PERFORMANCE

TX SPECIFICATIONS				RX SPECIFICATIONS			
	DataRate	Avg.Power	Tolerance		DataRate	Sensitivity	Tolerance
802.11a OFDM	6Mbps	25 dBm	+/-1.5dB	802.11a OFDM	6Mbps	-92 dBm	+/-1.5dB
	9Mbps	25 dBm	+/-1.5dB		9Mbps	-90 dBm	+/-1.5dB
	12Mbps	25 dBm	+/-1.5dB		12Mbps	-89 dBm	+/-1.5dB
	18Mbps	25 dBm	+/-1.5dB		18Mbps	-88 dBm	+/-1.5dB
	24Mbps	25 dBm	+/-1.5dB		24Mbps	-84 dBm	+/-1.5dB
	36Mbps	21 dBm	+/-1.5dB		36Mbps	-81 dBm	+/-1.5dB
	48Mbps	19 dBm	+/-1.5dB		48Mbps	-75 dBm	+/-1.5dB
	54Mbps	18 dBm	+/-1.5dB		54Mbps	-73 dBm	+/-1.5dB

### ADJUSTABLE CHANNEL SIZE SUPPORT (Increase Channel Capacity or Increase Throughput)

5MHz	10MHz	20MHz	40MHz (Turbo)
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### CURRENT CONSUMPTION INFORMATION

TX CURRENT CONSUMPTION				RX CURRENT CONSUMPTION			
	DataRate	Current	Tolerance		DataRate	Current	Tolerance
802.11a OFDM	6Mbps	1.20 A	+/-100 mA	802.11a OFDM	6Mbps	400 mA	+/-100 mA
	9Mbps	1.20 A	+/-100 mA		9Mbps	400 mA	+/-100 mA
	12Mbps	1.20 A	+/-100 mA		12Mbps	400 mA	+/-100 mA
	18Mbps	1.20 A	+/-100 mA		18Mbps	400 mA	+/-100 mA
	24Mbps	1.20 A	+/-100 mA		24Mbps	400 mA	+/-100 mA
	36Mbps	1.00 A	+/-100 mA		36Mbps	400 mA	+/-100 mA
	48Mbps	0.80 A	+/-100 mA		48Mbps	400 mA	+/-100 mA
	54Mbps	0.70 A	+/-100 mA		54Mbps	400 mA	+/-100 mA

### RANGE PERFORMANCE

Indoor (Antenna Dependent):	Up to 150meters
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

\*XR3-3.5 is a General Purpose Engineer Card that can be used to qualify performance up to 3.7GHz

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