



SuperRange4 Cardbus

Public Safety 4.9GHz Mobility Client

The SuperRange4 Cardbus adapter is a hi-performance, hi-power FCC Part90Y certified 4.9GHz client solution specifically designed to work with 4.9GHz mesh networks. In addition to high output power, it features excellent receiver performance, external antenna connectors, advanced mobility functionality and configuration, as well as Cisco CCX 4.0 support with the latest QoS and Security standards.

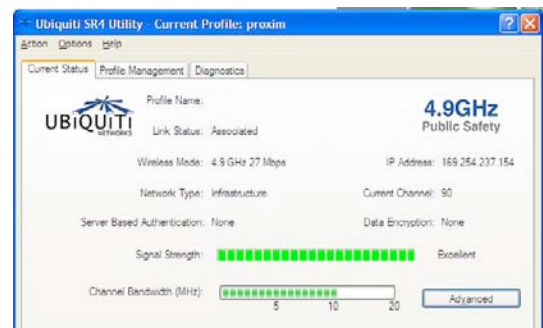


Mesh Networking and Mobility Support

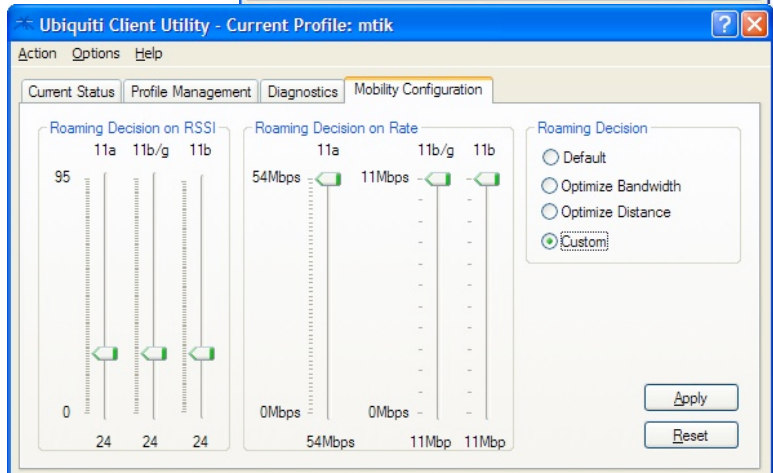
In addition to the superior range and radio performance of SR4C, Ubiquiti has developed an enhanced application that has been qualified and tested with systems from Tropo, Skypilot Networks, BelAir Networks, Proxim, Packet Hop and others. The utility is able to scan all 4.9GHz channels, associate at 5/10/20MHz channels widths, and provide performance feedback to the end user. An advanced mobility application allows network administrators to optimize mobility performance based on a variety of thresholds such as signal level, data rate, and AP credentials.



Mobility Screen



Laptop equipped with Ubiquiti SR4C + external antenna



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TECHNICAL SPECIFICATIONS



CARD INFORMATION								
Radio Operation	Proprietary 4.9GHz based on OFDM 802.11a with QPSK/16QAM/64QAM							
Interface	32-bit Cardbus Type II							
Operation Voltage	3.3VDC							
Antenna Ports	Dual MMCX (Primary only required; secondary optional for diversity)							
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							
RoHS Compliance	YES							
REGULATORY INFORMATION								
Wireless Modular Approvals	FCC PART90Y and Industry Canada. Approval covers antenna use up to 27dBi							
RADIO OPERATING FREQUENCY 4.94-4.99GHz								
TX SPECIFICATIONS					RX SPECIFICATIONS			
	DataRate	TX Power	Tolerance			DataRate	Sensitivity	Tolerance
4.9GHz OFDM	6Mbps	23 dBm	+/-1.5dB		4.9GHz OFDM	6Mbps	-94 dBm	+/-1.5dB
	9Mbps	23 dBm	+/-1.5dB			9Mbps	-93 dBm	+/-1.5dB
	12Mbps	23 dBm	+/-1.5dB			12Mbps	-91 dBm	+/-1.5dB
	18Mbps	23 dBm	+/-1.5dB			18Mbps	-90 dBm	+/-1.5dB
	24Mbps	23 dBm	+/-1.5dB			24Mbps	-86 dBm	+/-1.5dB
	36Mbps	21 dBm	+/-1.5dB			36Mbps	-83 dBm	+/-1.5dB
	48Mbps	20 dBm	+/-1.5dB			48Mbps	-77 dBm	+/-1.5dB
	54Mbps	19 dBm	+/-1.5dB	54Mbps		-74 dBm	+/-1.5dB	
CURRENT CONSUMPTION INFORMATION								
TX CURRENT CONSUMPTION					RX CURRENT CONSUMPTION			
	DataRate	Current	Tolerance			DataRate	Current	Tolerance
4.9GHz OFDM	6Mbps	0.80 A	+/-100 mA		4.9GHz OFDM	6Mbps	300 mA	+/-100 mA
	9Mbps	0.80 A	+/-100 mA			9Mbps	300 mA	+/-100 mA
	12Mbps	0.80 A	+/-100 mA			12Mbps	300 mA	+/-100 mA
	18Mbps	0.80 A	+/-100 mA			18Mbps	300 mA	+/-100 mA
	24Mbps	0.80 A	+/-100 mA			24Mbps	300 mA	+/-100 mA
	36Mbps	0.70 A	+/-100 mA			36Mbps	300 mA	+/-100 mA
	48Mbps	0.65 A	+/-100 mA			48Mbps	300 mA	+/-100 mA
	54Mbps	0.55 A	+/-100 mA	54Mbps		300 mA	+/-100 mA	
4.9GHz PUBLIC SAFETY FREQUENCY CHANNEL SUPPORT								
Frequency	5MHz	10MHz	20MHz		Frequency	5MHz	10MHz	20MHz
4942.5 MHz					4967.5 MHz			
4945.0 MHz					4970.0 MHz			
4947.5 MHz					4972.5 MHz			
4950.0 MHz					4975.0 MHz			
4952.5 MHz					4980.0 MHz			
4957.5 MHz					4982.5 MHz			
4960.0 MHz					4985.0 MHz			
4962.5 MHz					4987.5 MHz			
4965.0 MHz								
RANGE PERFORMANCE								
Indoor (Antenna Dependent):				Up to 100meters				
Outdoor (Antenna Dependent):				Over 1km				
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								
LAPTOP ANTENNA INFORMATION								
Antenna Dimensions				5.1 in x 0.83 in				
Cable				18 in with MMCX plug				
Antenna Type / Polarization				Omni-directional / Verticall Polarized				
Antenna Gain				4dBi				
Mounting Type				Adjustable Laptop Clip Mount and Sticker Mount Included				