SuperRange Cardbus

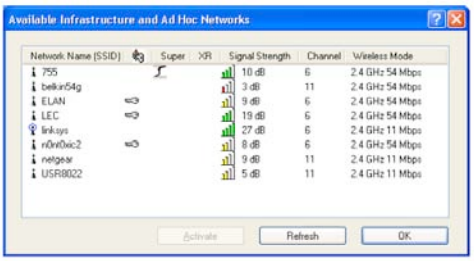
Long-Range 802.11a/b/g Mobility Client

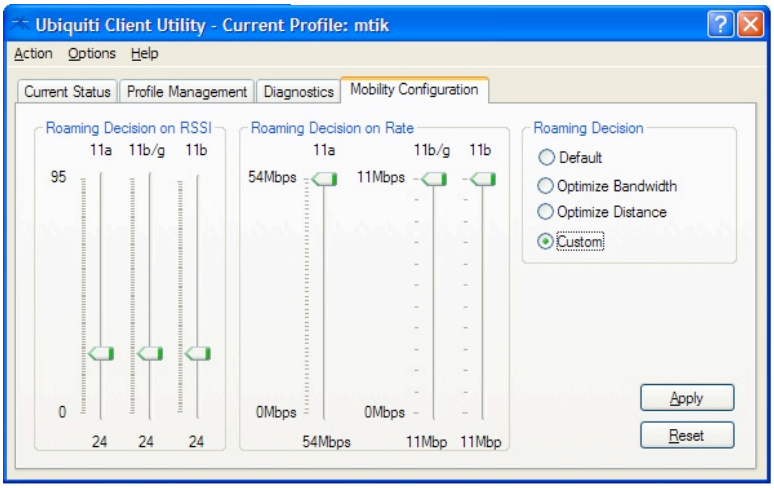
The SuperRange Cardbus adapter is a hi-performance, hi-power FCC-compliant client solution specifically designed for long distance links normally impossible to achieve with standard a/b/g cards. It features excellent receiver performance, external antenna connectors, advanced mobility functionality, as well as Cisco CCX 4.0 support with the latest 802.11 QoS and Security standards.

Mesh Networking and Mobility Support

In addition to the superior range and radio performance of the SRC, Ubiquiti has developed an enhanced application that has been qualified and tested with systems from Skypilot Networks, BelAir Networks, Proxim, Packet Hop and others. The utility contains advanced scanning functionality with credential filtering options and detailed performance feedback reporting. In addition, 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 SRC + external antenna

SuperRange Cardbus
Technical Specifications

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CARD INFORMATION	
Wireless Chipset	Atheros 5004
Radio Operation	IEEE 802.11a/b/g with CCK/OFDM at BPSK/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 , Industry Canada, CE (100mW limited)

OPERATING FREQUENCY 5745MHz-5825MHz

2.4GHz TX SPECIFICATIONS			
	DataRate	TX Power	Tolerance
802.11b	1Mbps	24 dBm	+/-1dB
	2Mbps	24 dBm	+/-1dB
	5.5Mbps	24 dBm	+/-1dB
	11Mbps	24 dBm	+/-1dB
802.11g OFDM	6Mbps	24 dBm	+/-1dB
	9Mbps	24 dBm	+/-1dB
	12Mbps	24 dBm	+/-1dB
	18Mbps	24 dBm	+/-1dB
	24Mbps	24 dBm	+/-1dB
	36Mbps	23 dBm	+/-1dB
	48Mbps	22 dBm	+/-1dB
	54Mbps	20 dBm	+/-1dB

2.4GHz RX SPECIFICATIONS			
	DataRate	Sensitivity	Tolerance
802.11b	1Mbps	-96 dBm	+/-1dB
	2Mbps	-95 dBm	+/-1dB
	5.5Mbps	-94 dBm	+/-1dB
	11Mbps	-91 dBm	+/-1dB
802.11g OFDM	6Mbps	-94 dBm	+/-1dB
	9Mbps	-93 dBm	+/-1dB
	12Mbps	-91 dBm	+/-1dB
	18Mbps	-90 dBm	+/-1dB
	24Mbps	-86 dBm	+/-1dB
	36Mbps	-83 dBm	+/-1dB
	48Mbps	-77 dBm	+/-1dB
	54Mbps	-74 dBm	+/-1dB

OPERATING FREQUENCY 2412MHz-2462MHz

5GHz TX SPECIFICATIONS			
802.11a OFDM	6Mbps	20 dBm	+/-1dB
	9Mbps	20 dBm	+/-1dB
	12Mbps	20 dBm	+/-1dB
	18Mbps	20 dBm	+/-1dB
	24Mbps	20 dBm	+/-1dB
	36Mbps	19 dBm	+/-1dB
	48Mbps	18 dBm	+/-1dB
	54Mbps	16 dBm	+/-1dB

RADIO 2 5GHz RX SPECIFICATIONS			
802.11a OFDM	6Mbps	-94 dBm	+/-1dB
	9Mbps	-93 dBm	+/-1dB
	12Mbps	-91 dBm	+/-1dB
	18Mbps	-90 dBm	+/-1dB
	24Mbps	-86 dBm	+/-1dB
	36Mbps	-83 dBm	+/-1dB
	48Mbps	-77 dBm	+/-1dB
	54Mbps	-74 dBm	+/-1dB

CURRENT CONSUMPTION INFORMATION

TX CURRENT CONSUMPTION			
	DataRate	TX Power	Tolerance
802.11b	1Mbps	0.80 A	+/-100 mA
	2Mbps	0.80 A	+/-100 mA
	5.5Mbps	0.80 A	+/-100 mA
	11Mbps	0.80 A	+/-100 mA
11g/a	6-24Mbps	0.80 A	+/-100 mA
	36Mbps	0.75 A	+/-100 mA
	48Mbps	0.70 A	+/-100 mA
	54Mbps	0.60 A	+/-100 mA

RX CURRENT CONSUMPTION			
	DataRate	Sensitivity	Tolerance
802.11b	1Mbps	350 mA	+/-100 mA
	2Mbps	350 mA	+/-100 mA
	5.5Mbps	350 mA	+/-100 mA
	11Mbps	350 mA	+/-100 mA
11g/a	6-24Mbps	350 mA	+/-100 mA
	36Mbps	350 mA	+/-100 mA
	48Mbps	350 mA	+/-100 mA
	54Mbps	350 mA	+/-100 mA

RANGE PERFORMANCE	
Indoor (Antenna Dependent):	Up to 150meters
Outdoor (Antenna Dependent):	Over 1km

DRIVER INFORMATION	
Operating System Support	Linux, 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 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	5dBi
Mounting Type	Adjustable Laptop Clip Mount and Sticker Mount Included