



# SuperRange Cardbus

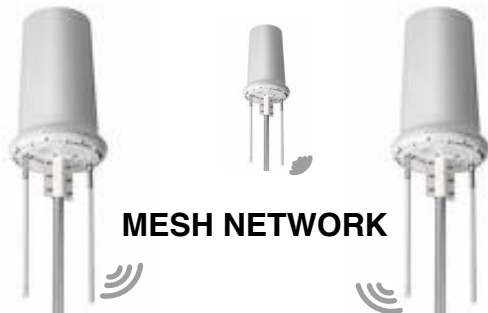
## Long-Range 802.11a/b/g Mobility Client

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.



Network Name (SSID)	Super	XR	Signal Strength	Channel	Wireless Mode
755			10 dB	6	2.4 GHz 54 Mbps
belkar54g			3 dB	11	2.4 GHz 54 Mbps
ELAN			9 dB	6	2.4 GHz 54 Mbps
LEC			19 dB	6	2.4 GHz 54 Mbps
ark-aps			27 dB	6	2.4 GHz 11 Mbps
nOvOvic2			8 dB	6	2.4 GHz 54 Mbps
netgear			9 dB	11	2.4 GHz 11 Mbps
USR0022			5 dB	11	2.4 GHz 11 Mbps

Mobility Screen



Laptop equipped with Ubiquiti SRC + external antenna

Ubiquiti Client Utility - Current Profile: mtk

Action Options Help

Current Status Profile Management Diagnostics **Mobility Configuration**

Roaming Decision on RSSI

11a 11b/g 11b

95

0

24 24 24

Roaming Decision on Rate

11a 11b/g 11b

54Mbps 11Mbps

0Mbps 0Mbps

54Mbps 11Mbps 11Mbps

Roaming Decision

Default

Optimize Bandwidth

Optimize Distance

Custom

Apply Reset

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## Technical Specifications



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 Milpitas, CA 95035  
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 F (408)-351-4973  
 sales@ubnt.com  
 http://www.ubnt.com

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			2.4GHz RX SPECIFICATIONS				
802.11b	DataRate	TX Power	Tolerance	802.11b	DataRate	Sensitivity	Tolerance
	1Mbps	24 dBm	+/-1dB		1Mbps	-96 dBm	+/-1dB
	2Mbps	24 dBm	+/-1dB		2Mbps	-95 dBm	+/-1dB
	5.5Mbps	24 dBm	+/-1dB		5.5Mbps	-94 dBm	+/-1dB
802.11g OFDM	11Mbps	24 dBm	+/-1dB	802.11g OFDM	11Mbps	-91 dBm	+/-1dB
	6Mbps	24 dBm	+/-1dB		6Mbps	-94 dBm	+/-1dB
	9Mbps	24 dBm	+/-1dB		9Mbps	-93 dBm	+/-1dB
	12Mbps	24 dBm	+/-1dB		12Mbps	-91 dBm	+/-1dB
	18Mbps	24 dBm	+/-1dB		18Mbps	-90 dBm	+/-1dB
	24Mbps	24 dBm	+/-1dB		24Mbps	-86 dBm	+/-1dB
	36Mbps	23 dBm	+/-1dB		36Mbps	-83 dBm	+/-1dB
	48Mbps	22 dBm	+/-1dB		48Mbps	-77 dBm	+/-1dB
54Mbps	20 dBm	+/-1dB	54Mbps	-74 dBm	+/-1dB		
OPERATING FREQUENCY 2412MHz-2462MHz							
5GHz TX SPECIFICATIONS			RADIO 2 5GHz RX SPECIFICATIONS				
802.11a OFDM	6Mbps	20 dBm	+/-1dB	802.11a OFDM	6Mbps	-94 dBm	+/-1dB
	9Mbps	20 dBm	+/-1dB		9Mbps	-93 dBm	+/-1dB
	12Mbps	20 dBm	+/-1dB		12Mbps	-91 dBm	+/-1dB
	18Mbps	20 dBm	+/-1dB		18Mbps	-90 dBm	+/-1dB
	24Mbps	20 dBm	+/-1dB		24Mbps	-86 dBm	+/-1dB
	36Mbps	19 dBm	+/-1dB		36Mbps	-83 dBm	+/-1dB
	48Mbps	18 dBm	+/-1dB		48Mbps	-77 dBm	+/-1dB
	54Mbps	16 dBm	+/-1dB		54Mbps	-74 dBm	+/-1dB
CURRENT CONSUMPTION INFORMATION							
TX CURRENT CONSUMPTION			RX CURRENT CONSUMPTION				
802.11b	DataRate	TX Power	Tolerance	802.11b	DataRate	Sensitivity	Tolerance
	1Mbps	0.80 A	+/-100 mA		1Mbps	350 mA	+/-100 mA
	2Mbps	0.80 A	+/-100 mA		2Mbps	350 mA	+/-100 mA
	5.5Mbps	0.80 A	+/-100 mA		5.5Mbps	350 mA	+/-100 mA
11g/a	11Mbps	0.80 A	+/-100 mA	11g/a	11Mbps	350 mA	+/-100 mA
	6-24Mbps	0.80 A	+/-100 mA		6-24Mbps	350 mA	+/-100 mA
	36Mbps	0.75 A	+/-100 mA		36Mbps	350 mA	+/-100 mA
	48Mbps	0.70 A	+/-100 mA		48Mbps	350 mA	+/-100 mA
54Mbps	0.60 A	+/-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 / Vertical Polarized						
Antenna Gain	5dBi						
Mounting Type	Adjustable Laptop Clip Mount and Sticker Mount Included						