

WiBORNE, INC.

High Power 400mW / 600mW 802.11a PCMCIA Cardbus Adapter with Extreme Range of Mobility

WLC-SR5 / WLC-XR5



The WLC-SR5 (400mW) and WLC-SR5 (600mW) adapters are a hi-performance, hi-power with radio been FCC-compliant as a client solution specifically designed for long distance links normally impossible to achieve with standard 802.11a 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.

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.

Optional external 802.11a/b/g antennas are available with gain ranged from 4 to 10 dBi. Such combo produces extreme range / distance with mobility.

General Specifications

Host Interface	Cardbus (32 bit) Type 2	
Radio Operation	IEEE 802.11a 5GHz	
Data Rate	6Mbps, 9Mbps, 12Mbps, 24Mbps, 36Mbps, 48Mbps. 54Mbps	
Security	WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152bit WEP	
TX Channel Width Support	5MHz / 10MHz / 20MHz / 40MHz	
Antenna Ports	MMCX	
RoHS Compliance	YES	
Temperature Range	SR5: -40C to +80C; XR5: -45C to +85C (extended temp version up to +95C)	
Wireless Chipset	Atheros 5214	
Operation Voltage	3.3VDC	
Wireless Modular Approvals	FCC Part 15.247 (32dBi Antenna), IC RS210, CE with Notified Body Number	
Radio Output Power (TX)	WLC-SR5 (400mW) 1-18 Mbps 26 dBm 24 Mbps 26 dBm 36 Mbps 24 dBm 48 Mbps 22 dBm 54 Mbps 21dBm	WLC-XR5 (600mW) 1-24 Mbps 28 dBm 36 Mbps 26 dBm 48 Mbps 24 dBm 54 Mbps 23 dBm
Radio Sensitivity (RX)	WLC-SR5 6 Mbps -94 dBm 9 Mbps -93 dBm 12 Mbps -91 dBm 18 Mbps -90 dBm 24 Mbps -86 dBm 36 Mbps -83 dBm 48 Mbps -77 dBm	WLC-XR5 6 Mbps -94 dBm 9 Mbps -93 dBm 12 Mbps -91 dBm 18 Mbps -90 dBm 24 Mbps -86 dBm 36 Mbps -83 dBm 48 Mbps -77 dBm

	54 Mbps -74 dBm	54 Mbps -74 dBm
Range Performance (Antenna Dependent)	Indoor: Up to 150 meter; Outdoor: Over 50KM	
Driver Information		
Operating System Support	Linux, Windows XP, Windows 2000	
Advanced Mobility / QuickHandoff	WindowsXP/2000 Utility with Enhanced Mobility Driver from Ubiquiti	
Cisco Support	CCX 4.0 Supported Driver/Utility also available from Ubiquiti	
Cardbus MiniPCI Adapter		
Functions	Manual switch for hot swappable with MiniPCI module	

Optional External Indoor Antennas

802.11 a/b/g antennas ranged from 4 to 10 dBi with J100 cable length 50CM of cable and MMCX or u.fl connectors for above cardbus adapter:



6151 Series



8640 Series



6180 Series



6110 Series



6601 Series



4010 Series



4020 Series



014 Series

Model #	Gain (dBi)	Brief Spec
6151	5	Omni, clip, stick resealable, or magnetic.
8640	5	Omni, stand
6180	4	Omni, stand
6110/6601	8	Directional, stand or wall mount
4010/4010	9/12	directional, stand or wall mount
014	10	Sector, mounting kits – desktop, suction, magnetic, or wall mount