

# Hardware User's Guide

## *Super Range Cardbus*



# Regulatory Information

## FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

The equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Consult the dealer or an experienced radio/TV technician for help

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## FCC Radiation Exposure Statement

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter

## CAUTION

- 1.) To comply with FCC RF exposure compliance requirements, a separation distance of at least 20cm must be maintained between the antenna of this device and all persons.
- 2.) This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter

# Limited End User Product Warranty

Pursuant to all provisions described herein, Ubiquiti Networks products are warranted for (1) year from the date of purchase against defects in the build materials and workmanship. Ubiquiti or its reseller shall use commercially reasonable efforts to promptly correct a nonconformity.

The above warranty is void if the alleged defect cannot be verified by Ubiquiti or if, as determined by Ubiquiti, the product failure was due to tampering, abuse, misuse, accident, shipping, handling, or storage; or if the product has been installed, used, or maintained in a manner not described in the product user manual, if the product has been altered in any way, or if product serialization has been altered. Any attempt to disassemble or repair the product by anyone other than Ubiquiti immediately voids this warranty.

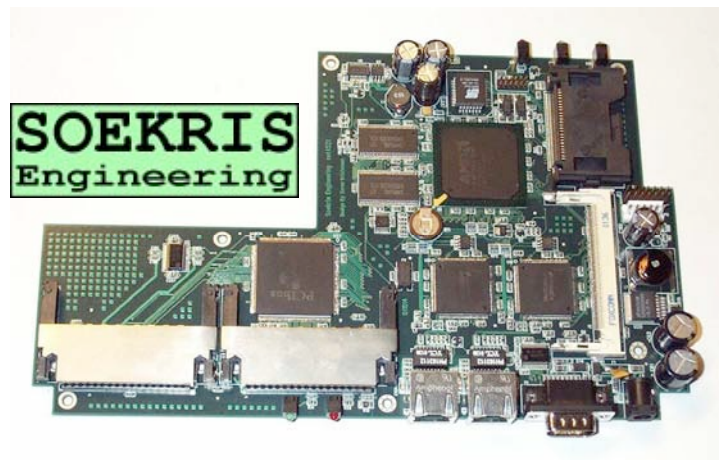
This warranty applies only to the original End User purchaser of the product and may not be transferred to any other individual or entity.

By using the product, the original End User purchaser agrees to and is bound by these terms and conditions. In the event that a product fails to meet this warranty and Ubiquiti's authorized reseller is notified in writing of such failure within the warranty period, Ubiquiti shall, at its own discretion, either repair the product or replace it with the same or a functionally-equivalent product free of charge. Replacement products may contain refurbished materials in whole or in part. Ubiquiti will honor this warranty provided the product is returned through an authorized Ubiquiti reseller or dealer with shipping charges prepaid, along with a proof of purchase describing the original purchase date and product serial numbers if applicable. The authorized reseller must acquire a Return Materials Authorization (RMA) number from Ubiquiti prior to returning any product. Ubiquiti does not accept shipments of defective products without shipping charges prepaid.

## THE SUPER RANGE 802.11a/b/g CARDBUS CARD

The Super Range Cardbus (SRC) is the world's first hi-power a/b/g cardbus card with external antenna connectors that is capable of working at both 2.4 GHz (2412-2462 Channels) and 5.8 GHz (5745-5805 Channels). The design is based on the Atheros 4<sup>th</sup> Generation chipset and boasts superior high-data rate and receive sensitivity performance.

The SRC was specifically designed to work with single board computer platforms for outdoor Access Point applications. Among the possible SBC's available to pair the SRC with are the Mikrotik Routerboard, Soekris SBC, and PC Engines' WRAP platform. (all shown below). For more detailed information regarding integration of the SRC with these platforms, please inquire with the host system manufacturer.



# SPECIFICATIONS

## Model

Super Range Cardbus

## Protocol

802.11a/b/g

## Encryption

40/64 Bit, 104/128 bit WEP keys  
128 bit, 256 bit ES Keys

## Wireless Interface

### 2.4 GHz spectrum

2412-2462 MHz (Channels 1-11)  
TX Power: Up to 25dBm output and  
31dBm radiated

### 5 GHz spectrum

5745-5805 MHz (Channels 149-161)  
TX Power: Up to 20dBm output and  
21.5dBm radiated

## Antennas

Certified with Joymax IC-6350  
2.4 GHz gain = 5.5 dBi  
5.8 GHz gain = 1.5 dBi

## Environmental Specifications

-Operating temperature: 0 to 70 C  
-Storage temperature: -40 to 80 C  
-Humidity (non-condensing) 5%-95%  
-Storage humidity (non-condensing) 10%-  
90%

## Warranty

One year limited warranty

**Dimensions:** 3.2' x 2" x 0.3"

**Weight:** 0.3 lbs

