

## RF Exposure Report

**Report No.:** SA160415D13

**FCC ID:** P27RP101V2

**Test Model:** RP101XXXXXXXX

**Received Date:** Apr. 15, 2016

**Test Date:** Apr. 28, 2016

**Issued Date:** May 6, 2016

**Applicant:** Sercomm Corp.

**Address:** 8F, No. 3-1, YuangQu St., NanKang, Taipei 115, Taiwan, R.O.C. (NanKang Software Park)

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)



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### Release Control Record

Issue No.	Description	Date Issued
SA160415D13	Original release.	May 6, 2016

## 1 Certificate of Conformity

**Product:** WiFi Repeater

**Brand:** Sercomm, ADT, Icontrol

**Test Model:** RP101XXXXXXXX

**Sample Status:** Engineering sample

**Applicant:** Sercomm Corp.

**Test Date:** Apr. 28, 2016

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**



Jessica Cheng / Senior Specialist

**Date:**

May 6, 2016

**Approved by :**



Rex Lai / Assistant Manager

**Date:**

May 6, 2016

## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

### 3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	29.96	4.25	20	0.5245	1

NOTE: 2.4GHz: Directional gain = 1.24dBi + 10log(2) = 4.25dBi

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