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# RF EXPOSURE REPORT

**REPORT NO.:** SA130806D01

**MODEL NO.:** CN-SZ-011– *multiple listing see item 3.1*

**FCC ID:** P27SZESW01

**RECEIVED:** Jul. 15, 2013

**TESTED:** Jul. 15 ~ Aug. 19, 2013

**ISSUED:** Aug. 19, 2013

**APPLICANT:** SerComm Corp.

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

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130806D01	Original release	Aug. 19, 2013



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## 1. CERTIFICATION

**PRODUCT:** ZigBee Energy Switch  
**MODEL NO.:** CN-SZ-011- *multiple listing see item 3.1*  
**BRAND NAME:** Sercomm, iControl, AT&T, Securifi  
**APPLICANT:** SerComm Corp.  
**TESTED:** Jul. 15 ~ Aug. 19, 2013  
**TEST ITEM:** ENGINEERING SAMPLE  
**STANDARDS:** FCC Part 2 (Section 2.1091)  
FCC OET Bulletin 65, Supplement C (01-01)  
IEEE C95.1

The above equipment (model: CN-SZ-011) 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 , **DATE:** Aug. 19, 2013  
( Jessica Cheng / Specialist )

**APPROVED BY :** Ken Liu , **DATE:** Aug. 19, 2013  
( Ken Liu / Senior Manager )



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## 2. RF EXPOSURE LIMIT

### 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)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

## 4. 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**.



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## 5. 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	19.10	0.3	20	0.0136	1.00

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