

FCC RF Exposure Report

FCC ID: P27SZESW02N

Project No. : 1608039
Equipment : ZigBee Energy Switch
Model : SZ-ESW02, SZ-ESW02Nxxxxxxxxx,
SZ-BSW02Nxxxxxxxxx (the 1st x should be "blank"
or "-" ; the rest x could be 0 to 9, A to Z, "blank"
or ,for marketing purpose)
Applicant : Sercomm Corporation
Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei, Taiwan
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According: : FCC Guidelines for Human Exposure IEEE C95.1

Technical Manager

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(Herbert Liu)

B T L I N C .

B1, No. 37, Lane 365, Yang-Guang St.,
Nei-Hu District, Taipei City 114, Taiwan.
TEL: +886-2-2657-3299 FAX: +886-2-2657-3331

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	PSA	RFECA3216060A1T	Chip	Solder	0.55

CACULATION:

Test Mode :	TX Mode
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Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2405	0.55	1.1350	19.75	94.4061	0.02132801	1	Complies
2425	0.55	1.1350	18.20	66.0693	0.01492624	1	Complies
2440	0.55	1.1350	20.21	104.9542	0.02371103	1	Complies
2445	0.55	1.1350	19.97	99.3116	0.02243626	1	Complies
2450	0.55	1.1350	19.92	98.1748	0.02217943	1	Complies
2475	0.55	1.1350	13.14	20.6063	0.00465533	1	Complies
2480	0.55	1.1350	-1.07	0.7816	0.00017658	1	Complies

Note: the calculated distance is 20 cm.