

FCC RF Exposure Report

FCC ID: P27SZDWS08

Project No. : 1611016
Equipment : Micro Door Window Sensor
Model : SZ-DWS08 ; SZ-DWS08Nxxxxxxxx(the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, "blank" or "-", for marking purpose)
Applicant : Sercomm Corporation
Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei, Taiwan 115

According: : FCC Guidelines for Human Exposure IEEE C95.1

Technical Manager

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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	Sercomm	SZ-DWS08N	Chip	Solder	0.67

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	0.67	1.1668	12.87	19.3642	0.00449728	1	Complies
2425	0.67	1.1668	12.62	18.2810	0.00424571	1	Complies
2440	0.67	1.1668	12.35	17.1791	0.00398979	1	Complies
2445	0.67	1.1668	12.32	17.0608	0.00396233	1	Complies
2450	0.67	1.1668	12.30	16.9824	0.00394412	1	Complies
2475	0.67	1.1668	12.50	17.7828	0.00413000	1	Complies
2480	0.67	1.1668	9.02	7.9799	0.00185332	1	Complies

Note: the calculated distance is 20 cm.