

FCC RF EXPOSURE REPORT

FCC ID: XRSCRMXCORE101

Project No. : 1412C254
Equipment : 2.4G Wireless Control Module
Model : 200-1901
Applicant : LumenRadio AB
Address : Stena Center 1, Gothenburg, Sweden

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

B T L I N C .

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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)	Note
1	N/A	104-1001	Dipole	N/A	2.15	
2	N/A	N/A	Internal	N/A	0.5	

TEST RESULTS

EUT :	CRMX CORE	Model Name :	200-1901
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	1Mbps_CH11/19/26		

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
2.15	1.6406	14.11	25.7632	0.00841299	1	Complies
2.15	1.6406	14.12	25.8226	0.00843238	1	Complies

Note: the calculated distance is 20 cm.