

## MPE CALCULATION

For Legrand Home Systems – 900MHz Band RF Module; Model: ARPS15RF2W4/ ARPS15RF2M4

FCC ID: YV8- AOPS15RF2

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	904.861 – 924.873 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300 – 1500 GHz
Power Density Limit:	0.603 mW/ cm <sup>2</sup> ;

Equation:  $S = PG / 4\pi R^2$  or  $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

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Maximum Output Power = 2.53 dBm, Antenna Gain = -1 dBi, Prediction distance 20cm

**S = 0.000283 mW/cm<sup>2</sup>**

Result:

The Above Result had shown that Device complied with 0.000283 mW/cm<sup>2</sup> Power density requirement for distance 20cm.

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