



Maximum Permissible Exposure (MPE) Requirement

Applicant: Control4 Corporation
Control4 Model: C4-Z2IO & C4-Z2C
FCC ID: R33C4Z2IO

This document was prepared using data collected during testing and information provided by the applicant. The maximum power density requirements for the General Public (Uncontrolled Environment) listed in FCC Part 1.1310 were used. The power density is calculated using the following equation.

$$P_d = \frac{P_t G^*}{4\pi r^2}$$

P_d = power density in watts

P_t = transmit power in milliwatts

G = numeric antenna gain

r = distance between body and transmitter in centimeters

* $P_t G$ = EIRP

The calculated power density of the EUT listed in this application is calculated below.

Transceiver (ZigBee)

The Maximum source-based time averaged conducted output power is based on the worst case conducted output power as reported in VPI Laboratories test report V038148_02 section 6.2.4, and declared maximum variation for the output power during manufacturing testing (tune-up procedure) is ± 0.5 dB.

Max Transmit Power ERP (dBm):	16.96	Tune-up variance (dB):	0.5
Max Transmit Power EIRP (mW):	62.52	Max Antenna Gain (dBi):	0.50
Operating Frequency (MHz):	2405-2475	(Numeric Antenna Gain):	1.12
Min Operating Distance (cm):	20	Duty Cycle (%):	100
Power Density (mW/cm ²):	0.01244		
Limit (mW/cm ²):	1.0		

CONCLUSION:

Therefore our device complies with the FCC's RF radiation exposure limits for general population without SAR evaluation.

Best Regards

Roger Midgley
Sr. Regulatory Compliance Engineer