

## MPE CALCULATION

**For Intelicis – 802.11 a/b/g Dual Radio AP; Model: Cedar860AG**

**FCC ID: U3HCEDAR860AG**

**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

(A) 802.11 (a)

**EUT Frequency Band:** 5180 – 5220 MHz

**EUT Maximum Measured Conducted Power:** 14.5 dBm (28.2 mW)

**EUT Antenna Gain:** 3 dBi

**Limits for General Population/Uncontrolled Exposure in the band of:** 1.5 – 100 GHz

**Power Density Limit:** 1 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

$$S = 28.2 \text{ mW} * 2.0 / 4 * 3.14 * (20\text{cm})^2 = 0.011 \text{ mW/cm}^2$$

EUT complies with 20cm distance exposure.