

**Prediction of MPE Limit**  
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**Equation used**

$$S = \frac{PG}{4\pi R^2}$$

$$R = \sqrt{\frac{PG}{4\pi S}}$$

**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

|                                                 |                                                                                   |                                                                                     |
|-------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                 | <b>Choose</b>                                                                     |                                                                                     |
|                                                 |  | <b>ENTER</b>                                                                        |
| Occupational/Controlled -(BTS)                  | <input type="radio"/>                                                             |  |
| General Population/Uncontrolled -(CPE)          | <input checked="" type="radio"/>                                                  |                                                                                     |
| Tx Frequency:                                   | [ 2402.00 ]                                                                       | (MHz)                                                                               |
| Maximum Peak Power at Antenna Input Terminal:   | [ -0.74 ]                                                                         | (dBm)                                                                               |
| Antenna gain (typical)+9dB for 8-element array: | [ -0.10 ]                                                                         | (dBi)                                                                               |

**S=** 1.00 (mW/cm<sup>2</sup>)

**P=** 0.84 (mW)

**G=** 0.98 (numeric)

**R = 0.26 (cm)**

The antenna(s) used for this transmitter is an integral non-changeable part of the Keyboard. The calculated values of MPE for this device shows that MPE is safe to within 0.1 inches of the antenna.