

**Prediction of MPE Limit
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Internet at the speed of thought

Equation from page 18

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

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

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

Choose

↓

Occupational/Controlled -(BTS)

General Population/Uncontrolled -(CPE)

ENTER

↓

Tx Frequency: (MHz)

Maximum Peak Power at **Antenna Input Terminal**: (dBm)

Antenna gain (18dBi max) + 9dB for 8-element array:* (dBi)

NOTE: this device will be deployed with an antenna with gain 18dBi or less.

S= 5.00 (mW/cm²)
P= 6606.93 (mW)
G= 501.19 (numeric)

R = 229.57 (cm)

NOTE: The following warning must appear in the installation manual.

WARNING: This device is intended to be used with an antenna professionally installed on a fixed, outdoor structure. A minimum separation distance of 1 meter should be maintained in order to ensure compliance with the FCC rules for Radio Frequency Exposure. Installation where this minimum distance cannot be maintained may result in exposure to RF levels that exceed the FCC limits and is discouraged.

