

## MPE CALCULATION

For HUBEI PINE-TUM ELECTRONICS TECHNOLOGY CO., LTD

**Model: EMG-330N7A**

**FCC ID: YTR-EMG-330N7A**

RF Exposure Requirements:	47CFR§1.1307(b)
RF Radiation Exposure Limits:	47CFR§1.1310
RF Radiation Exposure Guidelines:	47CFR§2.1091
EUT Frequency Band:	2412 – 2462MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 – 100000MHz
Power Density Limit:	1.0mW/cm <sup>2</sup> ;

Equation:  $S=PG/4\pi R^2$

Where, S=Power Density

P=Power Input to Antenna

G=Antenna Gain

R=distance to the center of radiated antenna

802.11g Low Channel (2412MHz):

Power=22.8dBm, Antenna Gain=2dBi, Prediction distance 20cm

$$S=(190.55 * 1.58)/(4 * 3.14 * 20^2) = 0.06 \text{ mW/cm}^2$$

Result

The above result had shown that device complied with 1.0mW/cm<sup>2</sup> Power density requirement for distance of 20 cm.

Completed By: Peter Cai

Date: September 28, 2010