

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 ² ;

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/cm² Power density requirement for distance of 20 cm.

Completed By: Peter Cai
Data: September 28, 2010