

MPE CALCULATION

For Exalt Communication, Inc– 5.8GHz Radio Module

FCC ID: TTM-105P25P

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
EUT Frequency Band:	5728.5 – 5846.5 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1.5 – 100 GHz
Power Density Limit:	1 mW/ cm ² ;

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

Point to point Link

5.8 GHz, Power = 29.70 dBm, Antenna Gain = 37.9dBi,
R= 677cm

Result

The Above Result had shown that Device complied with 1mW/cm² Power density requirement for distance with minimum distance of 677cm.

Completed By : David Zhang

Date : Sep 1st, 2011