## **Maximum Permissible Exposure**

## Applicable Standard

According to §1.1307(b)(5), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

The maximum output power for antenna is 13.57dBm (22.75mW) at 2462MHz of 802.11b mode. The antenna gain is 1.0dBi(numeric of I antenna gain is 1.26).

## Remark:

For WIFI fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be

Maximum Permissible Exposure

1) WIFI: Output power=22.75mW Numeric Antenna gain=1.26

Substituting the MPE safe distance using d=20cm into above equation.

Yields:

S=0.000199\*P\*G

Where  $P=Power\ in\ mW$ 

*G*=*Numeric* antenna gain

 $S=Power\ density\ in\ mW/cm^2$ 

WIFI: Power density=0.0057mW/cm<sup>2</sup>

(For mobile or fixed location transmitters, the maximum power density is **1.0 mW/cm<sup>2</sup>** even if the calculation indicates that the power density would be larger.)