



Radiation exposure evaluation

The model 3347-02 is a Wireless ADSL Router. It is desktop or wall-mounted device used with AC power adapter in mobile application, at least 20 cm from any body part of the user or nearby persons.

The maximum conducted average power is 26.0 dBm, antenna is fix-mounted, -2 dBi gain (maximum). Therefore, to comply with RF Exposure Requirement, the MPE is calculated.

The maximum Average EIRP calculated is 0.251 W. The Power Density can be calculated using the formula

$$S = \text{EIRP} / 4\pi D^2$$

Where: S is Power Density in W/m^2
D is the distance from the antenna.

At distance of 0.2 m, $S = 0.5 \text{ W}/\text{m}^2$ which is below MPE Limit of $10 \text{ W}/\text{m}^2$