FCC ID:PIDAIRSPAN-WIPLL2
Date: October, 2004

## Environmental evaluation and exposure limit according to FCC CFR 47 part 15, §15.247(b)(5) and §1.1307

MPE limit for power density for general population/uncontrolled exposure according to FCC §1.1310 is 1 mW/cm<sup>2</sup>.

A power density P (mW/cm²) = 
$$\begin{array}{c} P_T \\ ----- \\ 4\pi \ r^2 \end{array}$$
 , where

P<sub>T</sub> - transmitted power.

## For BSR-2.4:

 $P_T$  is equal to transmitter output power 23.33 dBm plus maximum antenna gain 11 dBi, the maximum equivalent isotropically radiated power (e.i.r.p.) is 34.33 dBm = 2710 mW.

$$1(mW/cm^2) = 2710 \text{ mW} / 4\pi \text{ r}^2$$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$2710 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.54 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$$

## For SPR-2.4:

P<sub>T</sub> is equal to transmitter output power 18.67 dBm plus maximum antenna gain 15 dBi, the maximum equivalent isotropically radiated power (e.i.r.p.) is 34 dBm = 2512 mW.

$$1(mW/cm^2) = 2512 \text{ mW} / 4\pi \text{ r}^2$$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$2512 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.5 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$$

Public cannot be exposed to dangerous RF level.