

Declaration on radiation safety standard conformance

To whom it may concern:

Agere Systems Nederland B.V.
Zadelstede 1-10
3431 JZ Nieuwegein
The Netherlands

declares that the following product

Description	:	2.4 GHz low power WLAN integrated PCMCIA card
FCC ID	:	IMRWLPC2411R
Manufacturer	:	Agere Systems Nederland B.V.
Brand	:	Agere
Type number	:	PC24-11-FC/R

has a maximum peak output power of +18.4 dBm (69.2 mW).

This intentional radiator is intended for connection to fixed-mounted antennas, which must be installed with a separation distance of at least 2 meters from all persons during normal operation. It has been determined that the worst-case antenna (with respect to antenna gain) which may be connected to the 2.4 GHz low power WLAN integrated PCMCIA card, has an effective antenna gain of 21.5 dBi.

This means that the worst-case prediction of power density (100% reflection) at 200 cm distance (worst-case) can be calculated as follows:

$$S = \frac{EIRP}{4 * \pi * R^2} \quad (\text{power density without reflection})$$

$$S = \frac{2^2 * EIRP}{4 * \pi * R^2} \quad (\text{power density with 100\% reflection})$$

$$S = \frac{2^2 * EIRP}{4 * \pi * R^2} = \frac{9774.75 \text{ mW}}{\pi * (200\text{cm})^2} = 0.08 \text{ mW/cm}^2 \quad (\text{limit} = 1.0 \text{ mW/cm}^2)$$

This means that according to OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01), the equipment fulfills the requirements on power density for general population/uncontrolled exposure and therefore fulfills the requirements of CFR 47 Part 15.247(b)(4).