

## Declaration on radiation safety standard conformance - MPE Evaluation

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 RLAN transceiver  
 FCC ID: IMRPC2411B  
 Manufacturer: Agere Systems Nederland B.V.  
 Brand: Agere  
 Type/model number: 0111-PC  
 External antenna: Antenna gain 5dBi max (including cable loss)

has an e.i.r.p. of 20.0 dBm max. (100 mW, including a maximum antenna gain of +5 dBi), which means that the minimum distance for which the limit of 1.0 mW/cm<sup>2</sup> of power density (Table 1 in 47 CFR §1.1310) is not exceeded can be calculated as follows:

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

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

$$S = \frac{2^2 * EIRP}{4 * \pi * R^2} = \frac{100 \text{ mW}}{\pi * (R)^2}$$

$$S = 1 = \frac{100 \text{ mW}}{\pi * (R)^2}$$

$$R = \sqrt{(100 \text{ mW} / \pi)} = 5.6 \text{ cm.}$$

This means that according to the Supplement C (edition 01-01) to OET Bulletin 65 (edition 97-01) the equipment can fulfil the requirements on power density for general population/uncontrolled exposure and therefore can fulfil the requirements of FCC Part 15.247(b) (4) at a separation distance of at least 5.6 cm between the user and the antenna.

The user/installation manual will contain the following RF Exposure statement:

*To comply with FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied:*

- *Radio cards connected to external antennas*  
*The separation distance between the antenna and any person's body (including hands, wrists, feet and ankles) must be at least 20 cm (8 inches).*

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 Position held: Regulatory Compliance