

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: IMRWLPC24E11R
Manufacturer: Agere Systems Nederland B.V.
Brand: Agere
Type/model number: PC24E-11-FC/R
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/cm² of power density (Table 1 in 47 CFR §1.1310) is not exceeded can be calculated as follows:

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

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

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

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

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

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 statements:

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

- with mobile configurations using approved external antenna, a separation distance of at least 20cm (8 inches) shall be maintained between the antenna and the user. The transmitter shall not be co-located with other transmitters or antennae."*

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