

Declaration on radiation safety standard conformance

To whom it may concern:

Conexant Systems Netherlands B.V.
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The Netherlands

declares that the following product

Description: Dell Wireless 1450 dual-band USB 2.0 adaptor
 FCC ID: RGS9207U
 Manufacturer: Gemtek Technology
 Brand: Dell
 Model: D1450U

(1) has a maximum e.i.r.p. of +22.7 dBm (186.2 mW, maximum conducted output power of +22.3 dbm plus antenna gain of 0.4 dBi) in the frequency range of 2412 – 2462 MHz, which means that the worst case prediction of power density (100% reflection) at 20 cm distance (worst case) can be calculated as follows :

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

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

$$S = \frac{2^2 * EIRP}{4 * \pi * R^2} = \frac{186.2 \text{ mW}}{\pi * (20\text{cm})^2} = 0.15 \text{ mW/cm}^2 \quad (\text{limit} = 1.0 \text{ mW/cm}^2)$$

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 47 CFR Part 15.247 (b)(5).

(2) has a maximum e.i.r.p. of +19.1 dBm (81.3 mW, maximum conducted output power of +18.3 dBm plus antenna gain of 0.8 dBi) in the frequency range of 5150 – 5350 MHz, which means that the worst case prediction of power density (100% reflection) at 20 cm distance (worst case) can be calculated as follows :

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

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

$$S = \frac{2^2 * EIRP}{4 * \pi * R^2} = \frac{81.3 \text{ mW}}{\pi * (20\text{cm})^2} = 0.06 \text{ mW/cm}^2 \quad (\text{limit} = 1.0 \text{ mW/cm}^2)$$

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 47 CFR Part 15.407 (f).

(3) has a maximum e.i.r.p. of +22.8 dBm (190.5 mW, maximum conducted output power of +22.0 dbm plus antenna gain of 0.8 dBi) in the frequency range of 5725 – 5850 MHz, which means that the worst case prediction of power density (100% reflection) at 20 cm distance (worst case) can be calculated as follows :

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

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

$$S = \frac{2^2 * EIRP}{4 * \pi * R^2} = \frac{190.5 \text{ mW}}{\pi * (20\text{cm})^2} = 0.15 \text{ mW/cm}^2 \quad (\text{limit} = 1.0 \text{ mW/cm}^2)$$

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 47 CFR Part 15.247 (b)(5).